

TXO

TXO PRODUCTION CORP.

1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

January 10, 1990

RECEIVED
JAN 16 1990

State of Utah
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

DIVISION OF
OIL, GAS & MINING

Re: Golf Federal #29-5
(SE/SE) Section 29-T6S-R21E
Uintah County, Utah
Federal Lease No. U-46699

Gentlemen:

Enclosed in triplicate is Form OGC-1a - Application for Permit to Drill along with an archeological clearance for the referenced well. Also included is a copy of the Drilling and Surface Use Plan as submitted to the Bureau of Land Management.

If you have any questions or need additional information, please contact me at this office.

Very truly yours,

TXO PRODUCTION CORP.,

Charles K. Curlee
GP

Charles K. Curlee
Environmental Manager

CKC/gbp

Enclosures

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

(Other instructions on reverse side)

5. Lease Designation and Serial No.
U-46699

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6. If Indian, Allottee or Tribe Name
-

1a. Type of Work
DRILL PLUG BACK

7. Unit Agreement Name
-

b. Type of Well
Oil Well Gas Well Other Multiple Zone

8. Farm or Lease Name
Golf Federal

2. Name of Operator
TXO Production Corp. Attn: C.K. Childers

9. Well No.
#29-5

3. Address of Operator
1800 Lincoln Center Bldg. Denver, CO 80264

10. Field and Pool, or Wildcat
 Unnamed (002)

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface
1915' FNL, 656' FEL (SE/NE) Section 29-T6S-R21E
At proposed prod. zone

11. Sec., T., R., M., or Blk. and Survey or Area
Section 29-T6S-R21E

14. Distance in miles and direction from nearest town or post office*
Approximately 13.5 miles south of Vernal, Utah

12. County or Parrish 13. State
Uintah UT

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest dirct. line, if any)
656'

16. No. of acres in lease approx. 780
17. No. of acres assigned to this well 160

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft. (Fina Fed. #29-2)
approx. 2100'

19. Proposed depth 3850' Green River
20. Rotary or cable tools Rotary

21. Elevations (Show whether DP, RT, GR, etc.)
4694' G.R.

22. Approx. date work will start*
February 1, 1990

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12 1/4"	8 5/8"	24#	300'	200 sacks (approx.) to surf.
7 7/8"	4 1/2"	10.5#	3850'	250 sacks

All casing will be new K-55.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Signed: Gary J. Wurdeman Title: Dist. Drlg & Prod'n Manager Date: Jan. 9, 1990
(This space for Federal or State office use)

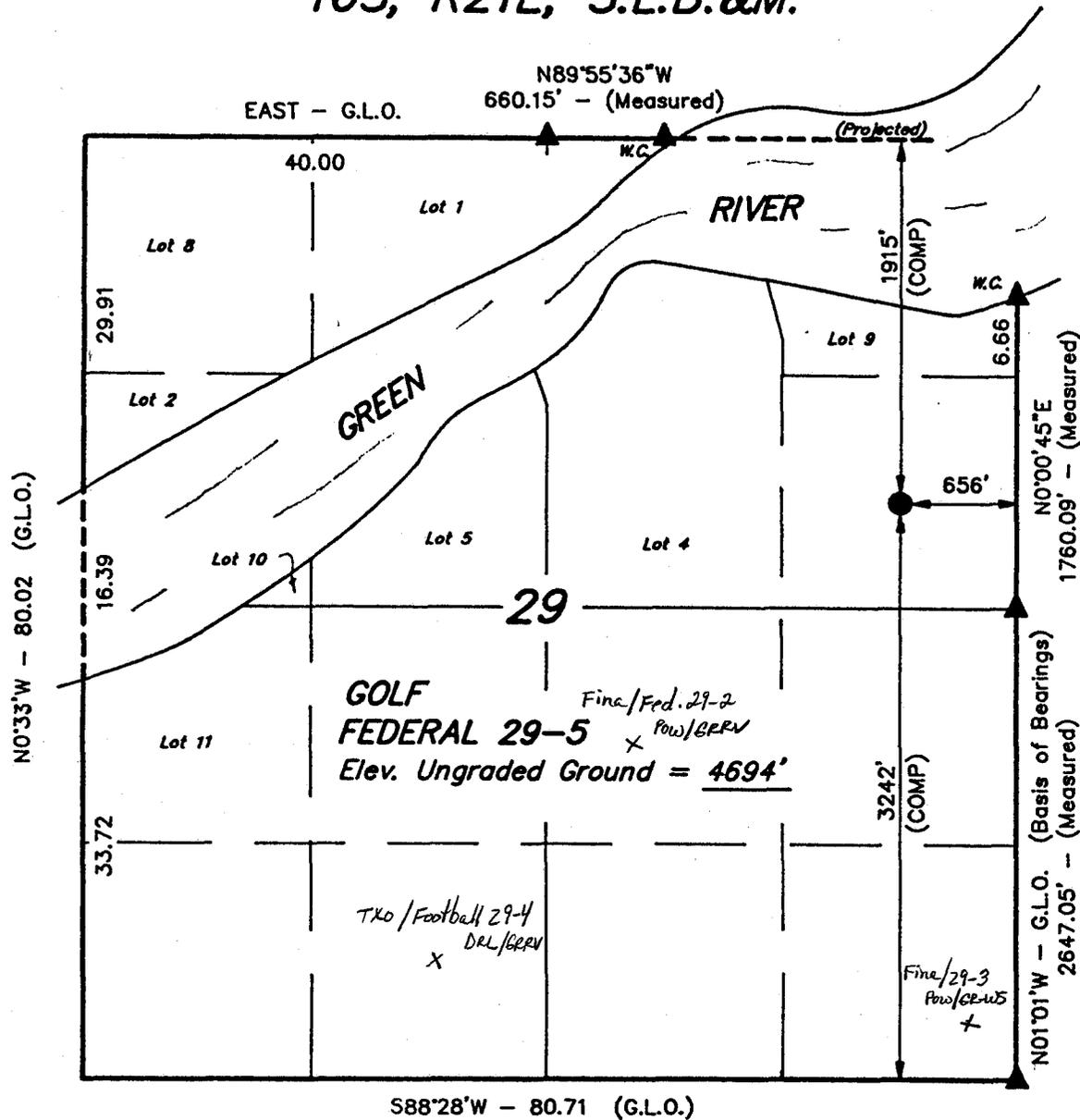
Permit No. 43-047-31886 Approval Date _____
Approved by _____ Title _____
Conditions of approval, if any: _____

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 1-22-90
BY: John R. Bays
WELL SPACING: Lease No. 127-3

*See Instructions On Reverse Side

T6S, R21E, S.L.B.&M.



TXO PRODUCTION CORP.

Well location, GOLF FEDERAL #29-5, located as shown in the SE 1/4 NE 1/4 of Section 29, T6S, R21E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE SE CORNER OF SECTION 29, T6S, R21E, S.L.B.&M. TAKEN FROM THE VERNAL SE QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4942 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NO. 5709
Robert L. Gray
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 5709
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
 P. O. BOX 1758 - 85 SOUTH - 200 EAST
 VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 11-26-89
PARTY D.A. E.M. D.S. T.D.H.	REFERENCES G.L.O. PLAT
WEATHER COOL, CLEAR	FILE TXO PRODUCTION CORP.

NOTE:

LOCATION BEARS N48°39'12"W 873.83' FROM THE EAST 1/4 CORNER OF SECTION 29, T6S, R21E, S.L.B.&M.

▲ = SECTION CORNERS LOCATED. (Brass Caps).

DRILLING PLAN

DATE: December 28, 1989
WELL NAME: Golf Federal #29-5
SURFACE LOCATION: 1915' FNL, 656' FEL, (SE/NE)
Section 29-T6S-R21E SLB&M
Uintah County, Utah

FEDERAL OIL & GAS LEASE NO.: U-46699

Be advised that TXO Production Corp. is considered to be the operator on the above described lands and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands or portions thereof, bond coverage for this well is provided by Bond No. 5570134, Principal TXO Production Corp.

I. DRILLING PROGRAM

1. **SURFACE FORMATION:** Uinta
2. **ESTIMATED FORMATION TOPS:**

Lower Uinta "B"	3450'
Green River	3800'
Total Depth	3850'
3. **ESTIMATED DEPTH AT WHICH OIL, GAS, WATER OR OTHER MINERAL BEARING ZONES ARE EXPECTED TO BE ENCOUNTERED:**

Expected Gas Zones: Lower Uinta "B" Zone
4. **PRESSURE CONTROL EQUIPMENT:**
 - A. After surface casing is set, a double ram-type blowout preventer with blind rams and pipe rams, with minimum working pressure of 2000 psi, will be installed. See Exhibit 1. The anticipated bottomhole pressure is 1700 psi.
 - B. A choke control, fill and kill lines with minimum working pressure of 2000 psi will be installed. Choke and kill lines will be 2" minimum in size.
 - C. The equipment in A and B will be pressure-tested to 2000 psi for a minimum of 15 minutes before drilling surface pipe cement. The blowout preventer will be tested for proper operation daily and during trips.
5. **CASING PROGRAM AS PER FORM 3160-3.**

6. MUD PROGRAM:

0'-350'	Spud mud: 8.8-9.2 ppg; 35-45 viscosity API
350'-2800'	Native, 8.8-9.2 ppg; 28-32 viscosity API;
2800'-3800'	LSND, 9.0-9.4 ppg, 35-45 viscosity API, WL less than 10 cc's.

Mud flow will be monitored via pit level indicator.

7. CORING, LOGGING, TESTING PROGRAM:

- A. No coring anticipated.
- B. Logging will consist of: GR-SP-DIL from TD to surface casing; FDC-CNL, GR, CAL from TD to 500' above TD.

8. ABNORMAL CONDITIONS:

- A. No abnormal pressures or temperatures are expected.
- B. No hazardous gases such as H₂S are expected.

9. AUXILIARY EQUIPMENT:

- A. A kelly cock will be used.
- B. A float valve will be run in the drill string above the bit.
- C. A sub with full opening valve will be kept on the derrick floor to stab into DP when kelly is not in use.

10. ANTICIPATED STARTING DATES:

Start location construction	February 1, 1990
Spud date	February 4, 1990
Complete drilling	February 26, 1989
Completed, ready for pipeline	March 12, 1989

11. COMPLETION PROGRAM:

A smaller completion rig will replace the drilling rig for this portion of the operations if the well shows capability of commercial production. After casing is set by the drilling rig, the completion rig will be moved in and productive zones will be perforated, tested and treated as necessary. Gas will be flared during testing. Produced liquid hydrocarbons will be directed to test tanks on location. Produced water will be contained in the drilling reserve pit. The extent of treatment of a zone (acidizing and/or fracing) can only be determined after the zone has been tested. An exact completion program will be furnished after drilling and logging, if requested.

II. SURFACE USE PROGRAM

This Surface Use Program contains all stipulations received during the on-site inspection of the access road and drill site, held December 6, 1989.

1. EXISTING ROADS

- A. From Vernal, Utah proceed 16.9 miles southeast through Naples on new highway. Turn right (west) onto dirt road and proceed 4.4 miles to an intersection. Turn right (northwest) and proceed 4.0 miles to a junction. Turn right following "Fina" signs and proceed 3.0 miles across saddle and into Stirrup area. The pad area and short access road ($\pm 30'$) is to the right.
- B. Access route to location is shown on Exhibit 2.
- C. For development well, all existing roads within one mile color coded in yellow. Refer to Exhibit 3.
- D. Plans for improvement and maintenance of existing roads: The existing roads will require minimal maintenance. During wet periods, maintenance may be necessary to facilitate passage by heavy well servicing equipment. Dry periods may require some road watering to control dust and improve stability.

2. PLANNED ACCESS ROAD

- A. The existing road runs along the west side of the pad and only $\pm 30'$ of new access road is needed to enter the southwest corner of the pad. No culverts, fence cuts, cattleguards or turnouts will be necessary. See Exhibit 4.
- B. All travel will be confined to existing access road rights-of-way. Access roads and surface disturbing activities will conform to standards outlined in the 1989 BLM Publication "Surface Operating Standards for Oil & Gas Exploration and Development."
- C. No access right-of-way across federal lands is required. A designated Uintah County Road occurs to the lease boundary in the NE/4 of Section 29-T6S-R21E.

3. LOCATION OF EXISTING WELLS

Exhibit 5 is a one-mile radius locating and identifying the following:

- A. Water wells-None
- B. Injection Wells-None
- C. Abandoned Wells-One
- D. Disposal Wells-None
- E. Producing Wells-Thirteen
- F. Drilling Wells-None
- G. Shut-in Wells-None

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. On-well-pad production facilities, if well is successfully completed for production.

1. Proposed facilities and attendant lines in relation to the well pad. Refer to Exhibit 6.
2. Dimensions of facilities: Refer to Exhibit 6.
3. The production facilities will include: Combination production unit, meter run, and dehydrator, and one small lined production pit. The anticipated location of these facilities is shown on Exhibit 6.

The pit will consist of a large diameter 8' to 10' section of culvert set vertically in cut and topped with expanded metal mesh. The bottom of the culvert-lined pit will be lined with a layer of 4" concrete. This pit will be used in accordance with NTL-2B IV.4. specifications for disposal of less than five barrels of produced water per day. In the event the volume of produced water exceeds 5 BWPD, TXO will investigate alternate disposal methods and obtain approval as required by NTL-2B.

4. Protective devices and measures to protect livestock and wildlife: The water production pit will be covered with expanded metal mesh to protect livestock and wildlife. Production lines on the location between the wellhead, production equipment, pits, and gas pipeline will be wrapped and buried.
5. All permanent structures on-site will be painted a flat, non-reflective earthtone (Desert Brown) within 6 months of installation, excluding OSHA compliance facilities.

B. Off-well-pad production facilities.

No off-well-pad facilities, other than a gas pipeline, are anticipated.

5. LOCATION AND TYPE OF WATER SUPPLY

A. Location and type of water supply: TXO is obtaining state approval to draw water from the Green River from several points inside the Stirrup.

Temporary water use permits from the State of Utah will be obtained for the sources used.

B. Method of transporting water: The water will either be hauled in trucks by a certified water hauler or pumped to the location via a temporary water line. The truck haul route would use existing roads.

The water pipeline would most likely parallel the same roads. Where road crossings are required, the water pipeline will be temporarily buried.

- C. If water well is to be drilled, so state: No water well is contemplated.

6. SOURCES OF CONSTRUCTION MATERIALS

- A. Show information either on map or by written description: It is anticipated that cuts on location will furnish sufficient quantities of material to construct a level location. Topsoil will be stockpiled off the southeast side of the pad for later use during rehabilitation of the disturbed areas. Excess excavated material from the pit will be stockpiled on the northwest side of the pit for use during rehabilitation. Please refer to Exhibit 7.
- B. Identify if from Federal or Indian Land: The affected land is federal and under the jurisdiction of the Bureau of Land Management.
- C. No additional materials, such as sand or gravel, are to be obtained and a minerals material application is not required. If such fill materials are needed, proper permits will be obtained from BLM if the material source is on federal public land.

7. METHODS OF HANDLING WASTE DISPOSAL

- A. Drill cuttings and drilling fluids will be contained and disposed of in the reserve pit.
- B. Produced fracing fluids will be directed to the reserve pit for evaporation.
- C. Sewage: A portable chemical toilet will be on location during drilling operations.
- D. Garbage and other trash will be placed in a trash cage and removed to a sanitary landfill upon completion. Burning will not be allowed.
- E. Protective Devices: The reserve pit will be fenced on three sides during drilling, and on the fourth side prior to the rig moving off location to protect animals. The flare pit will also be fenced. Fencing will consist of a wire mesh ("stocktight") fence topped with one strand of barbed wire and will be in accordance with the BLM Vernal District Fencing Policy. If any oil is in the reserve pit, it will be removed or overhead flagging will be installed.
- F. Statement regarding proper cleanup when rig moves out: When the rig moves out, all trash and refuse will be removed from the location and hauled to an approved landfill. Burning will not be allowed. All pits will be filled after drying and the area restored as under Item 10 of this plan.

- G. Produced water will be confined to the lined reserve pit or a storage tank for a period not to exceed 90 days after first production. During the 90-day period, an application for approval of a permanent disposal method (unlined production pit) will be submitted to BLM for approval.

8. ANCILLARY FACILITIES

Identify all proposed camps and airstrips on a map as to their location, area required and construction methods: Camp facilities and use of airstrips are not required.

9. WELL SITE LAYOUT ATTACHMENT AND PROPOSED RIG LAYOUT

- A. Cross section of drill pad with cuts and fills: Refer to Exhibit 7. The southwest corner of the pad will be rounded off slightly to avoid disrupting the existing road.
- B. Location of mud tank, reserve pit, trash bin, pipe racks and other facilities; rig orientation, parking areas, access road: Refer to Exhibit 7.
- C. Statement regarding pit lining: The reserve pit will be lined with a plastic liner of a minimum 10 mil thickness.
- D. A diversion ditch/berm will be constructed above the southeast side of the location and sloped to drain potential discharge to the south and west of the pad area.

10. PLANS FOR RESTORATION OF SURFACE

- A. Backfilling, leveling, contouring, and waste disposal: Immediately upon completion of the well, the site will be cleared of all debris and materials not needed for production and the mouse and rat holes filled. Prior to backfilling, the reserve pit will be allowed to dry by evaporation and any cans, barrels, pipe or other debris will be removed. Cuttings, drilling muds, and similar spent chemicals directed to the reserve pit pursuant to Item 7 above will be buried as the pit is backfilled. The reserve pit will be reclaimed within 180 days from the date of well completion.
- B. All disturbed areas, including either areas of the pad not needed for production facilities or the entire location and access road if a dry hole, will be graded to an appearance consistent with the natural contours. Stockpiled topsoil will then be distributed evenly over these disturbed areas. The disturbed areas will be scarified by plowing or ripping to a depth of 12" and left rough in preparation for reseeding.
- C. Disturbed areas will be reseeded with an appropriate seed mix to be determined by BLM at the time restoration activities begin. Seed will be planted using a disc-type drill set 10" apart. Seed will

be planted between one-half and three quarter inches deep. A drag or roller may be used to insure uniform coverage and compaction. Drilling will be done on contour. On slopes too steep for drilling, a "Cyclone" brand seeder or similar broadcast seeder will be used, using twice the recommended amount of seed per acre. Seed will then be covered to the prescribed depth by whatever means is practical.

- D. Seeding will be done from October 1 until ground freeze. If unsuccessful, additional seeding may be required. At such time as the well is P&A'd, a surface reclamation plan will be submitted to BLM via SRA to obtain additional seeding requirements and seed mixes.
- E. Timetable for commencement and completion of rehabilitation operations: Rehabilitation will commence when drilling operations are completed, approximately March 12, 1990 and will be finished within approximately one year. It is anticipated that seeding of the recontoured pad would be performed in the Fall of 1990 following pit backfill and recontouring operations.

11. SURFACE OWNERSHIP

The access road and the well pad are located on public lands managed by the BLM.

12. OTHER INFORMATION

- A. Topography, soil characteristics, geologic features, flora, fauna: The drill site is located on a dry bench above the Green River floodplain and just below steep, gravel hills that rise several hundred feet above the river. Vegetative cover is sparse, about 25% or less. Plant species in the area include rabbitbrush, shadscale, horsebrush, needlegrass, and galleta grass. Local fauna include deer, antelope, and various birds and small mammals. No threatened or endangered species are known to occur at the drill site area, although several species of endangered fish occur in the Green River and the bald eagle occurs as a winter resident along portions of the Green River.
- B. Other surface-use activities include: Oil and gas production and livestock grazing.
- C. Proximity of water, occupied dwellings: At its closest point, the Green River flows about 2000' northwest of the location. No occupied dwellings occur in the area.
- D. Archeological, historical, or cultural sites: An archeological survey has been conducted for the well pad and the results forwarded to the Vernal BLM Office. If any archeological, historical or cultural sites are discovered during operations, all operations affecting such sites will be suspended and the discovery reported promptly to BLM.
- E. Noxious weeds along the access road and on the wellsite will be

controlled. If herbicides or pesticides are used, prior approval will be obtained from BLM for the specific chemical proposed via a Pesticide Use Proposal.

- F. BLM will be contacted between 24 and 48 hours prior to beginning construction activities at the site. The BLM contact is Byron Tolman at (801) 789-1362. BLM will be notified upon site completion prior to moving on the drilling rig.
- G. No cottonwood trees or other floodplain vegetation on the northwest side of the existing road will be removed or damaged. Equipment will be confined to the pad and access road and use of the existing road will not encroach on the floodplain to the northwest.
- H. The drilling rig and/or other drilling equipment will not be stacked or stored on federal lands after the conclusion of drilling operations without BLM authorization. Any BLM authorization for such rig storage would only be a temporary measure until arrangements are made for storage at off-site commercial facilities.

13. LESSEE'S OR OPERATOR'S REPRESENTATIVES AND CERTIFICATION

- A. Name, address and phone number of the lessee's or operator's field representative who is responsible for assuring compliance with the approved surface use and operations plan.

Gary E. Wurdeman
District Drilling & Production Manager
TXO Production Corp.
1660 Lincoln Street
1800 Lincoln Center Building
Denver, Colorado 80264
(303) 861-4246 - Business
(303) 741-2517 - Residence

Comments regarding the content of this plan or arrangements for an on-site inspection should be directed to:

Charles K. Curlee
Environmental Manager
TXO Production Corp.
1660 Lincoln Street
1800 Lincoln Center Bldg.
Denver, Colorado 80264
(303) 861-4246 - Business
(303) 355-3297 - Residence

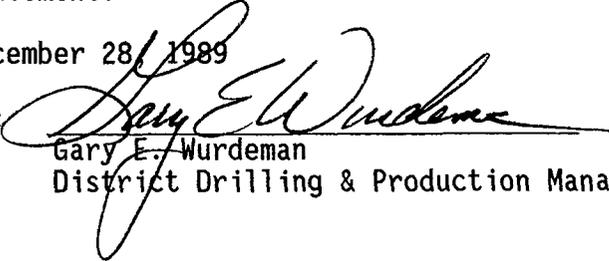
- B. All operations will be conducted in full compliance with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable NTL's. TXO Production Corp. is fully responsible for the actions of its subcontractors. Copies of the approved permit, including all conditions, will be furnished to TXO's field representative and to

the dirt contractor (Surface Use Plan portion only) to insure compliance.

- C. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by TXO Production Corp. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 USC 1001 for the filing of a false statement.

DATE: December 28, 1989

NAME AND TITLE:


Gary E. Wurdeman
District Drilling & Production Manager

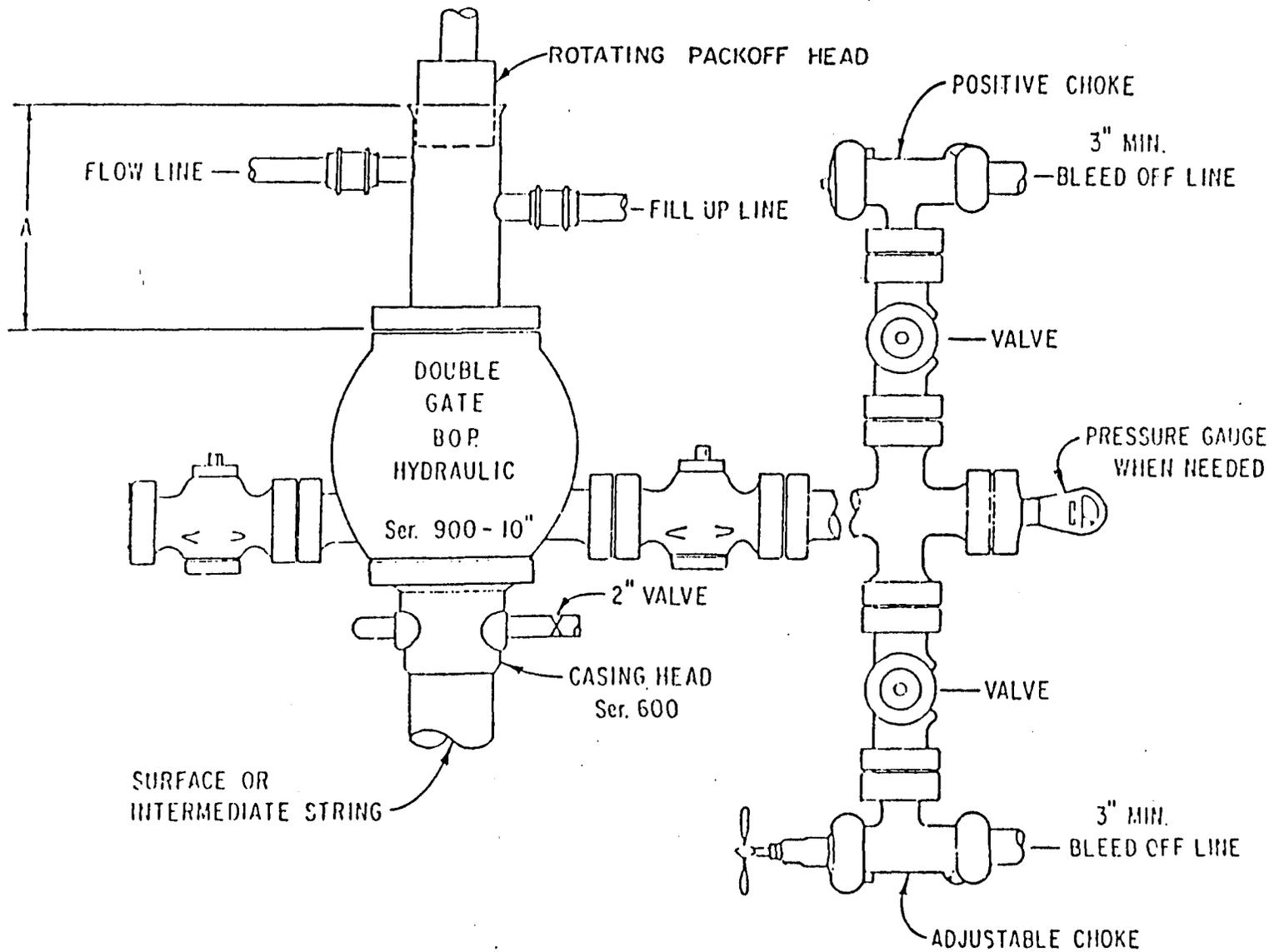
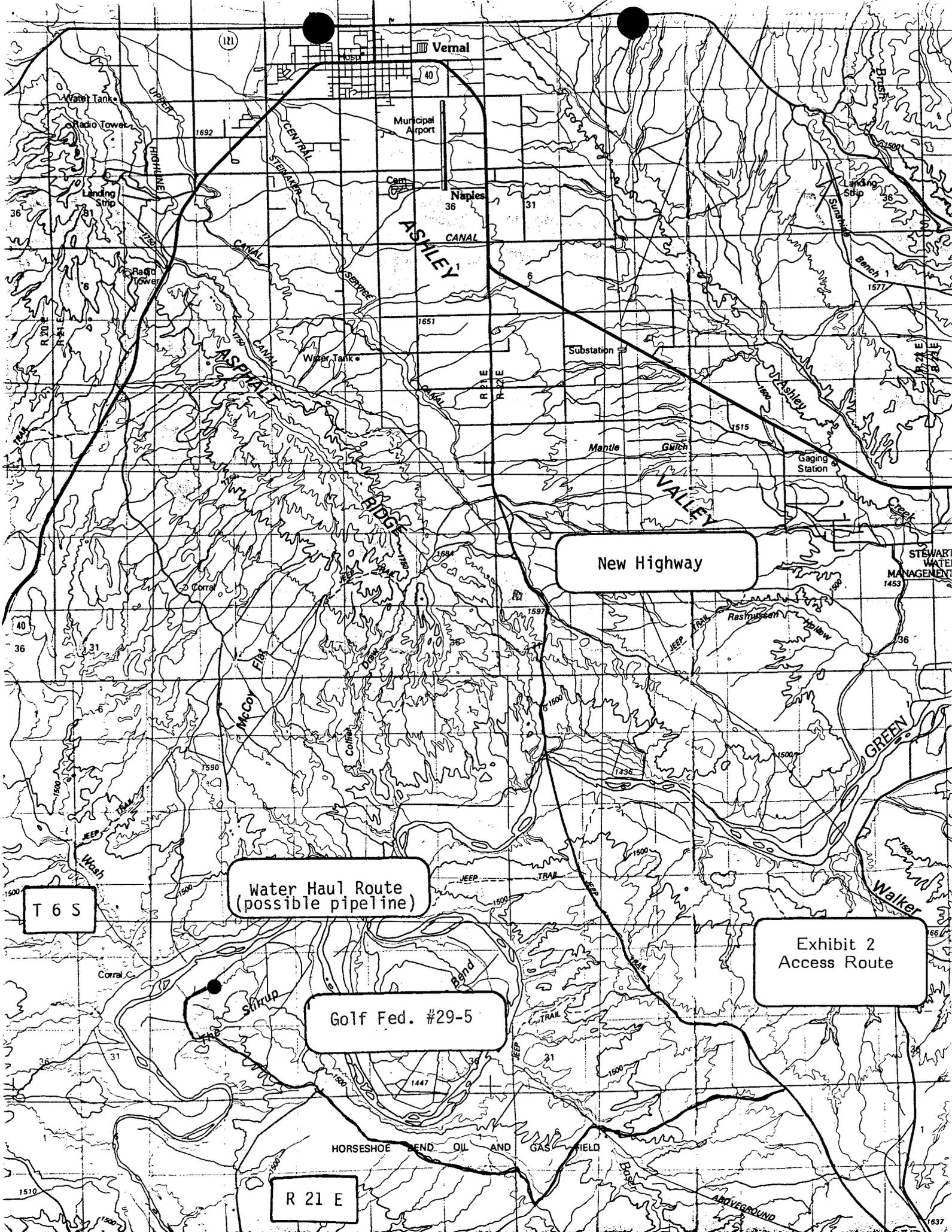


EXHIBIT I
 BLOWOUT PREVENTER DIAGRAM



ASHLEY CANAL

ASHLEY VALLEY

GREEN RIVER

WALKER RIVER

HORSESHOE BEND OIL AND GAS FIELD

Vernal

Naples

Water Tank

Substation

Mantle

Gaging Station

Water Tank

Water Tank

Water Tank

Water Tank

Water Tank

Water Tank

New Highway

Water Haul Route
(possible pipeline)

Golf Fed. #29-5

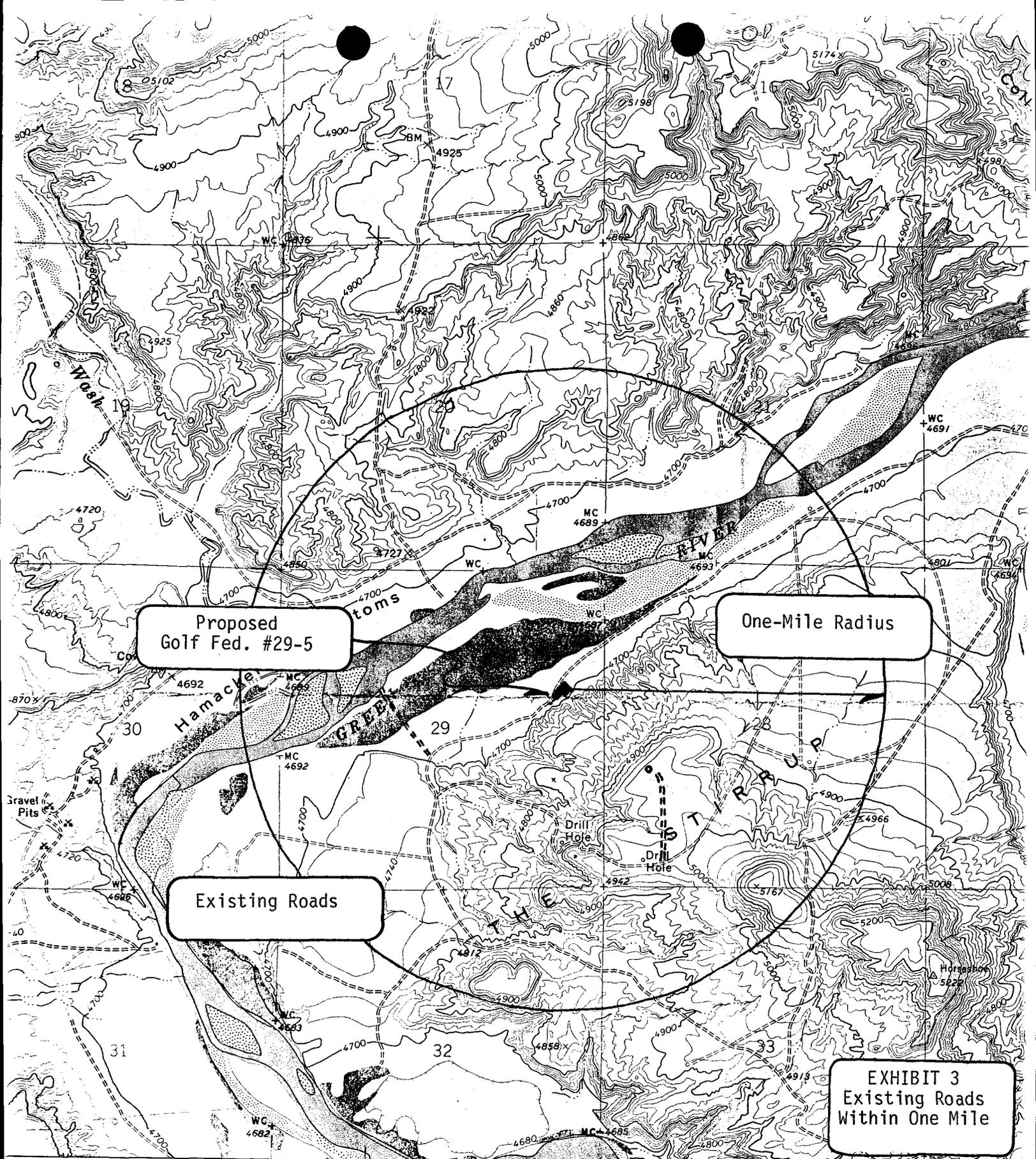
Exhibit 2
Access Route

T 6 S

R 21 E

STEWART WATER MANAGEMENT
1453

1637



Proposed
Golf Fed. #29-5

One-Mile Radius

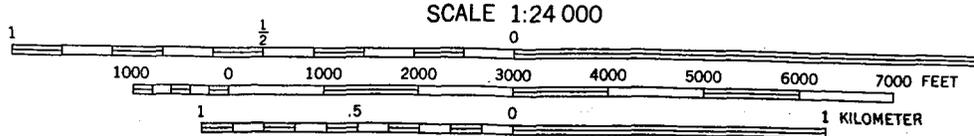
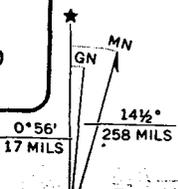
Existing Roads

EXHIBIT 3
Existing Roads
Within One Mile

1:253000 FEET

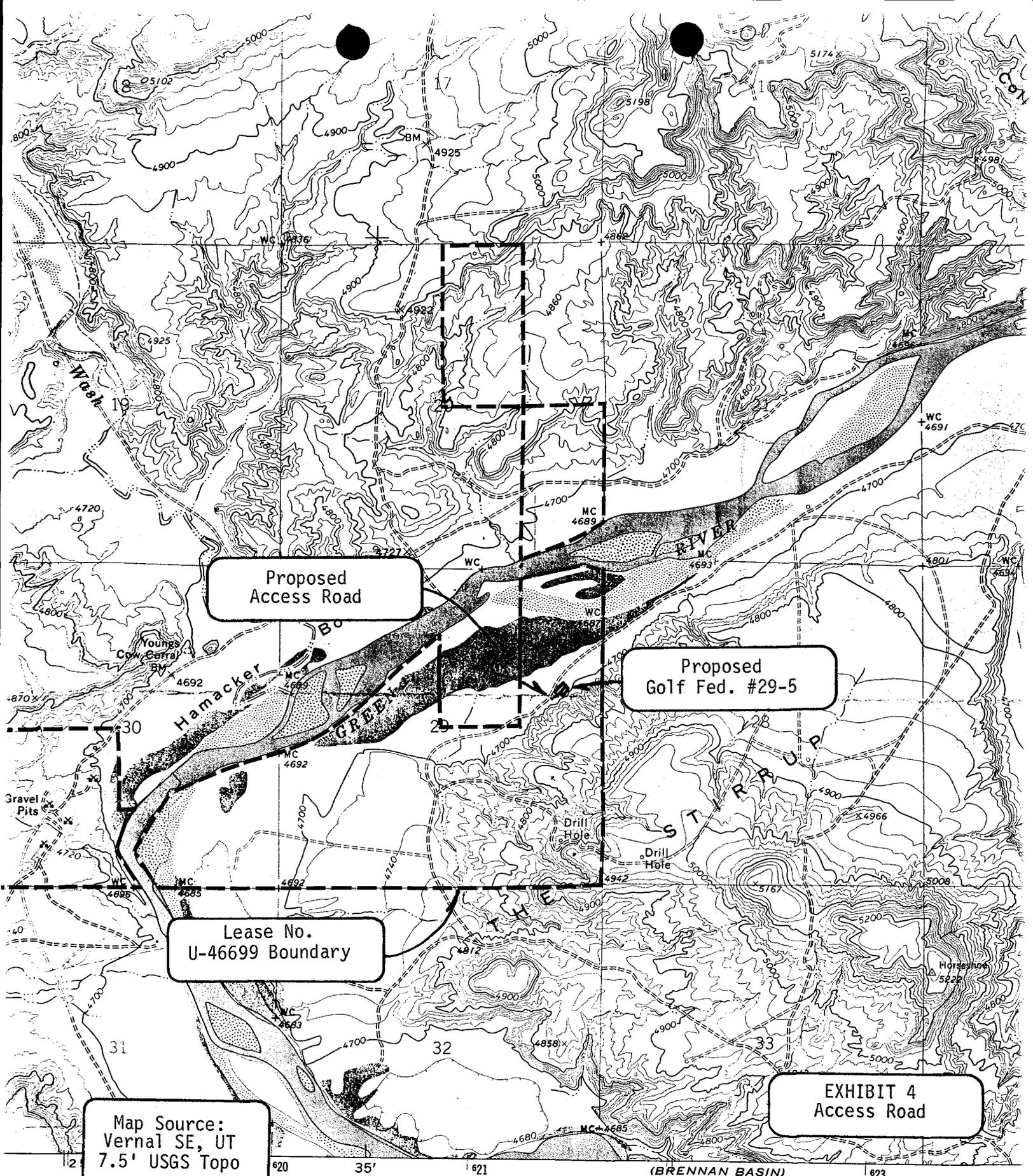
(BRENNAN BASIN)
4064 II NE

Map Source:
Vernal SE, UT
7.5' USGS Topo



CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS

Central zone



Proposed
Access Road

Proposed
Golf Fed. #29-5

Lease No.
U-46699 Boundary

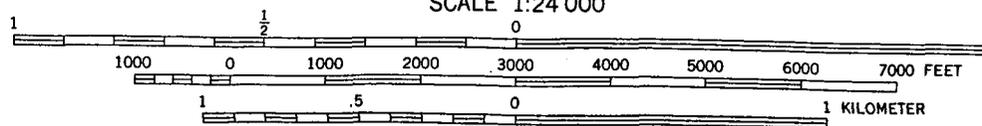
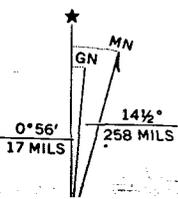
Map Source:
Vernal SE, UT
7.5' USGS Topo

EXHIBIT 4
Access Road

Survey

(BRENNAN BASIN)
4064 II NE

SCALE 1:24 000



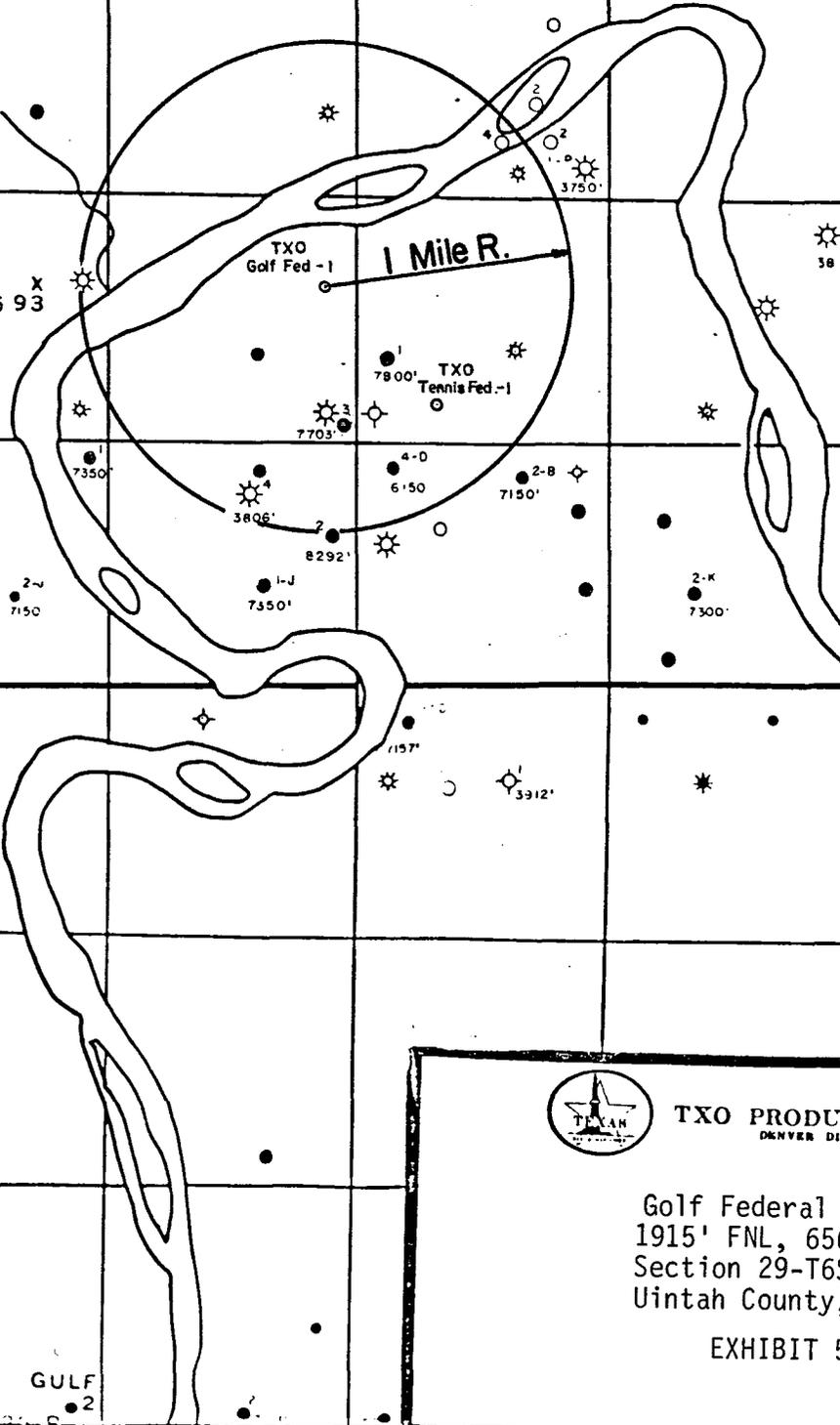
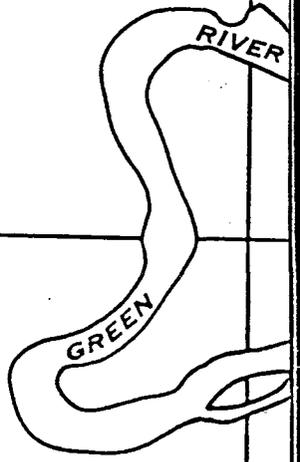
CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS

Central zone

R21E

BM 4866^x

CARTER
φ 5022'DF
9002'



BM 4693^x

TXO
Golf Fed - 1

TXO
Tennis Fed - 1

T
6
S

T
7
S



TXO PRODUCTION CORP.
DENVER DISTRICT

Golf Federal #29-5
1915' FNL, 656' FEL
Section 29-T6S-R21E
Uintah County, Utah

EXHIBIT 5

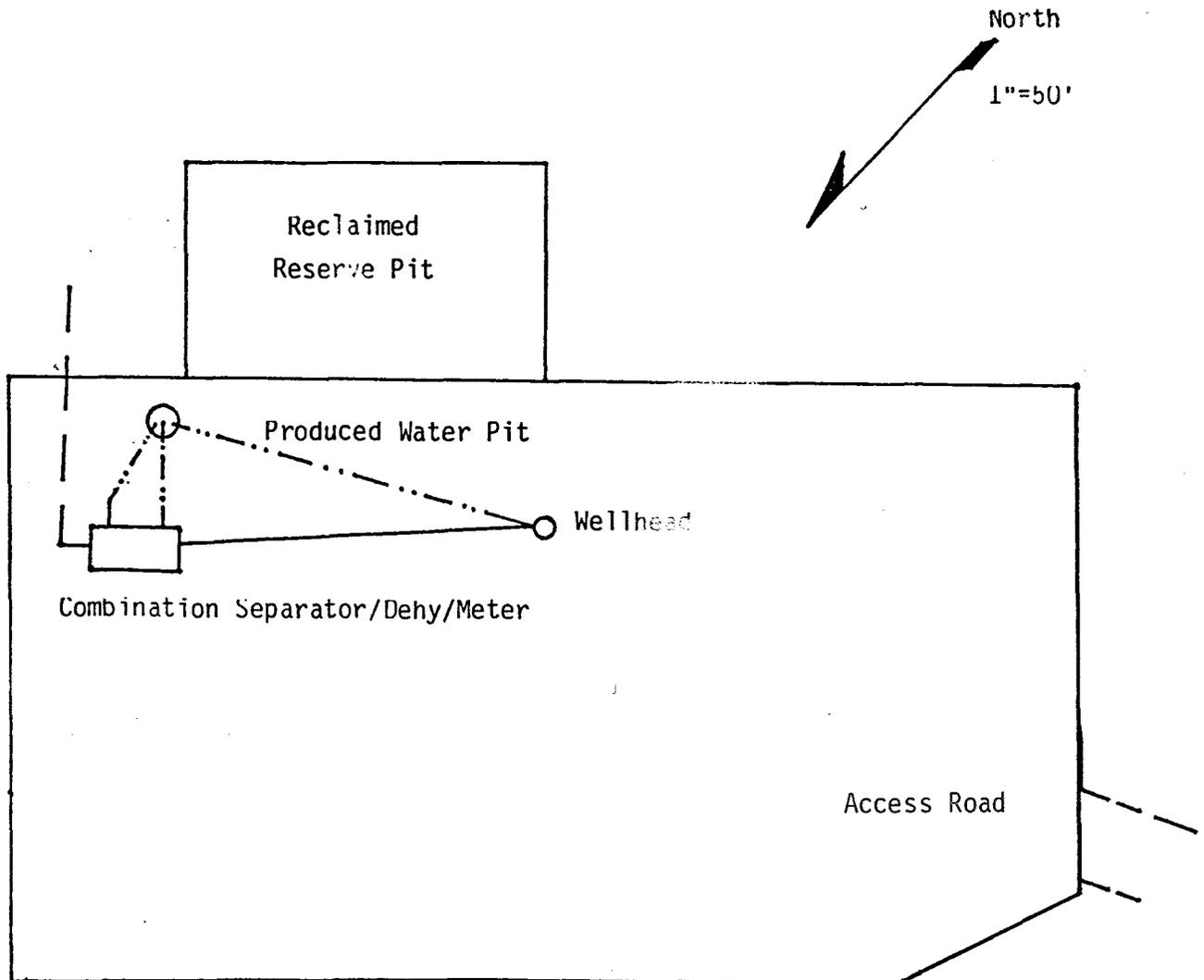
GULF
4831'RB
8000'

GULF
2

EXHIBIT 6

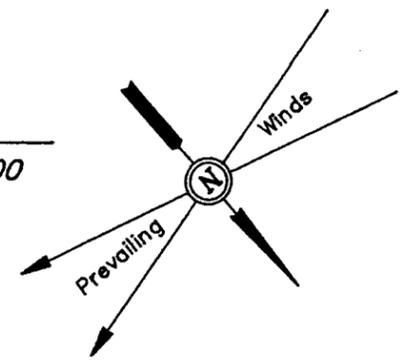
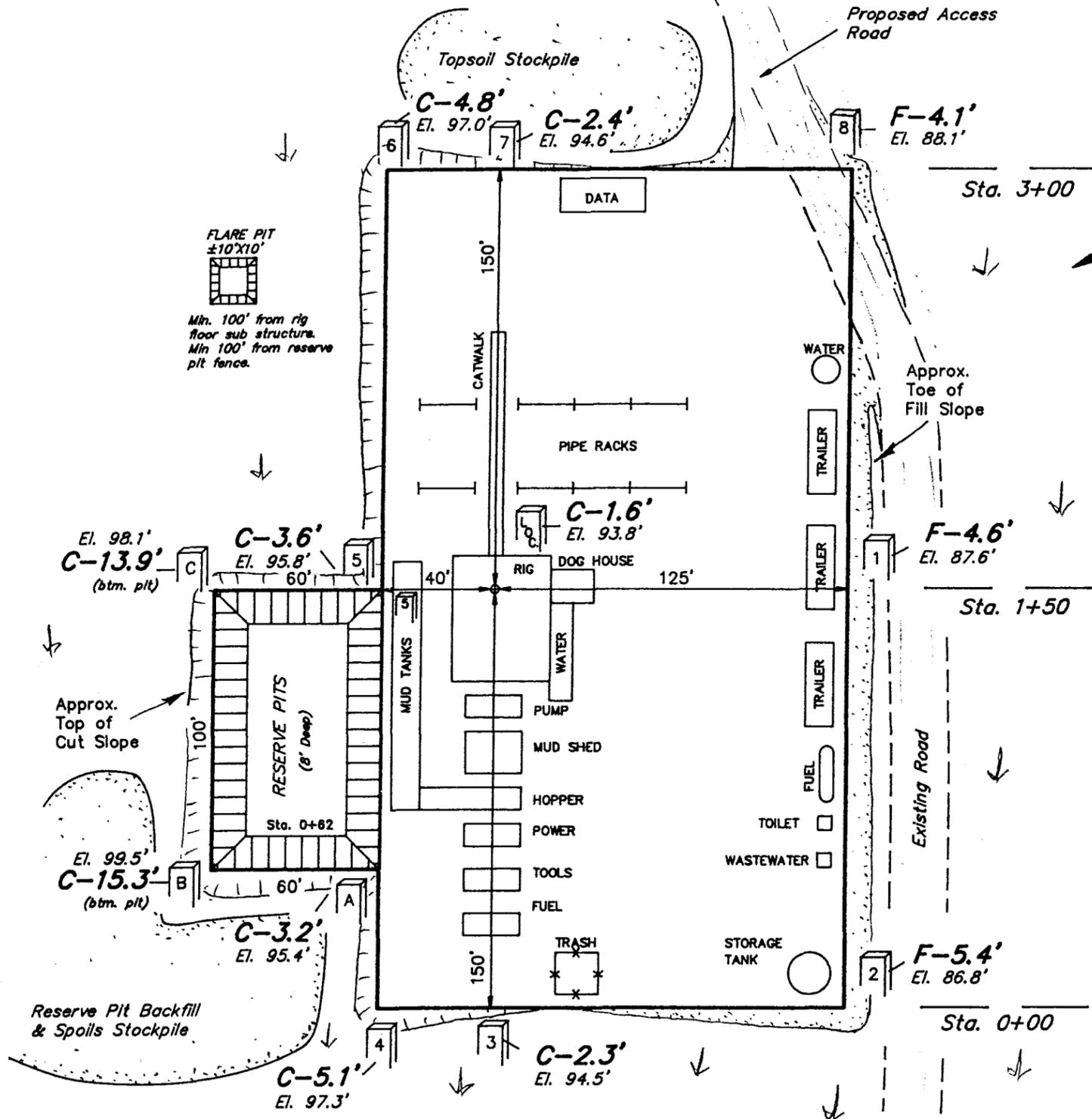
PRODUCTION FACILITIES

Golf Federal #29-5
Section 29-T6S-R21E
Uintah County, Utah



1. All pipelines on location will be coated, wrapped and buried.
2. Sacrificial magnesium anodes will be used for corrosion control, if necessary.
3. The combination separator/dehydrator/meter unit will be an ASME-coded vessel.
4. The water production pit will consist of a large diameter culvert set 8' to 10' deep, leaving a 1' rim above ground level. The bottom will be poured 4" concrete and the top will be covered with expanded steel mesh.

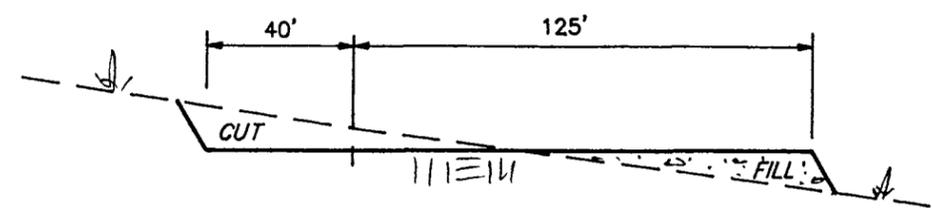
TXO PRODUCTION CORP.
 LOCATION LAYOUT FOR
 GOLF FEDERAL #29-5
 SECTION 29, T6S, R21E, S.L.B.&M.



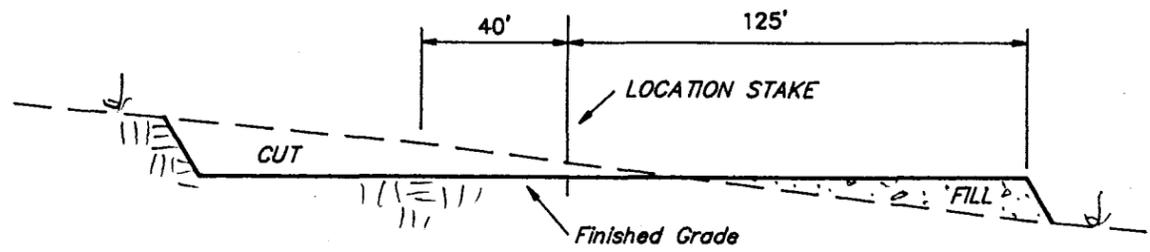
SCALE: 1" = 50'
 DATE: 11-28-89

X-Section Scale
 1" = 20'

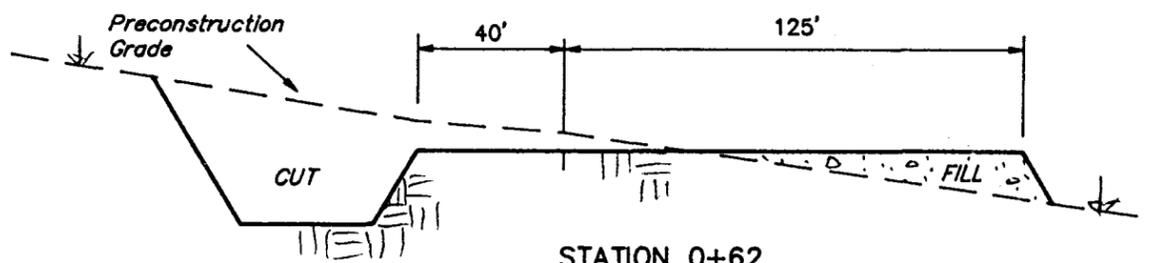
TYP. LOCATION LAYOUT



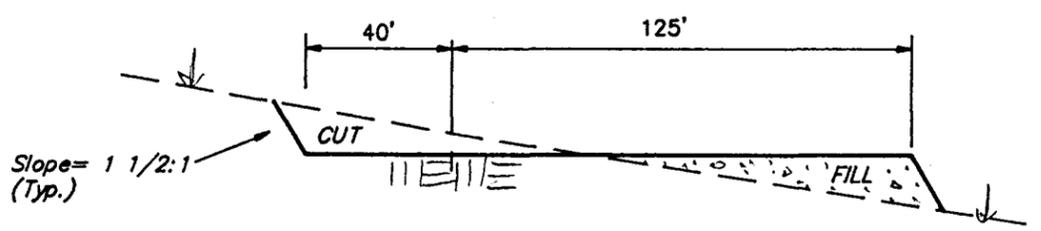
STATION 3+00



STATION 150+00



STATION 0+62



STATION 0+00

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	1,028	Cu. Yds.
Pit Volume (Below Grade)	=	1,252	Cu. Yds.
Remaining Location	=	2,658	Cu. Yds.

EXCESS MATERIAL AFTER 5% COMPACTION	=	1,716	Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	1,654	Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	62	Cu. Yds.

TOTAL CUT	=	4,938	CU.YDS.
FILL	=	3,061	CU.YDS.

Elev. Ungraded Ground at Location Stake = 4693.8'

Elev. Graded Ground at Location Stake = 4692.2'

UINTAH ENGINEERING & LAND SURVEYING
 P.O. Box 1758 Vernal, Utah

CULTURAL RESOURCE INVENTORY OF
FIVE PLANNED TXO PRODUCTION WELL PADS
IN UINTAH COUNTY, UTAH

by
Alan D. Reed, Principal Investigator
and
Rand A. Greubel, Staff Archaeologist

Alpine Archaeological Consultants, Inc.
P.O. Box 521
Montrose, Colorado 81402
(303) 249-6761

Prepared for

TXO Production Corp.
1800 Lincoln Center Building
Denver, Colorado 80264

*Under the Provisions of
BLM Cultural Resource Use Permit 89UT62700*

Project Authorization No. U89-A1-703bs

November 1989

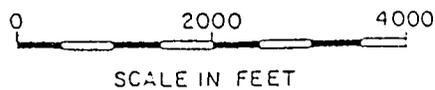
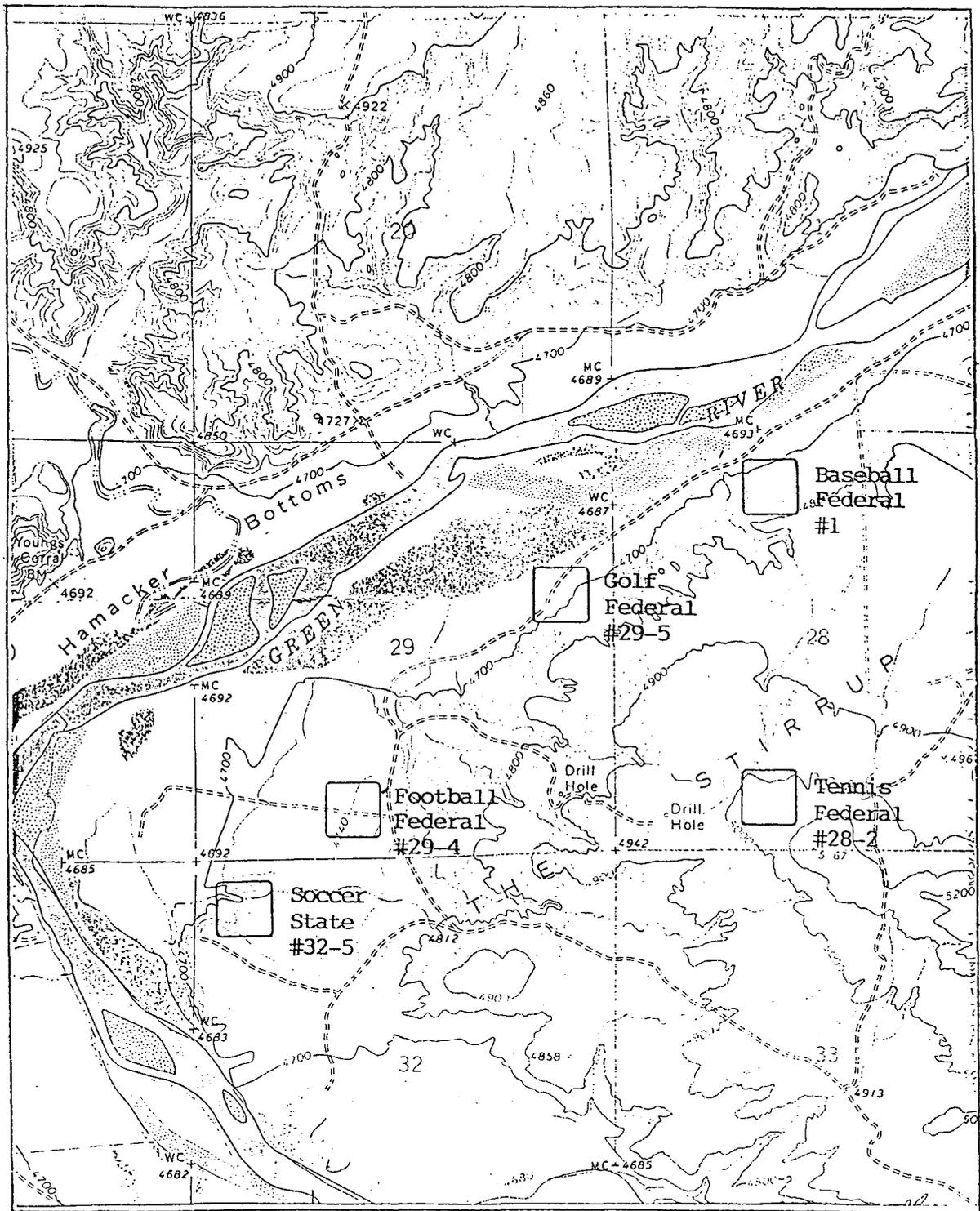
INTRODUCTION

TXO Production Corporation of Denver, Colorado is planning to construct five well pads and associated access roads in Uintah County, Utah. The five planned pads have been designated Football Federal #29-4, Golf Federal #29-5, Baseball Federal #1, Tennis Federal #28-2 and Soccer State #32-5. Construction will require the preparation of five earthen pads, each covering approximately two or three acres, and construction of approximately 366 m (1200 ft) of access roads. The planned well pads are located on state lands and on lands administered by the Bureau of Land Management, Vernal District. Because federal lands are involved, various historic preservation laws and regulations must be addressed, including the National Historic Preservation Act of 1966 (as amended), Executive Order 11593, the Archaeological Preservation Act of 1974, and the Archaeological Resources Protection Act of 1979 (as amended). It is the intent of these laws to identify significant cultural resources and to facilitate their preservation. To comply with these laws, TXO Production Corp. contracted with Alpine Archaeological Consultants, Inc. to conduct a literature review and intensive pedestrian inventory of the planned ground disturbance area.

The fieldwork was conducted on November 21, 1989 by Alan D. Reed, Principal Investigator, and Rand A. Greubel, Staff Archaeologist, of Alpine Archaeological Consultants, Inc. The fieldwork was conducted under the provisions of BLM Cultural Resource Use Permit 89UT62700. No artifacts were collected. Data generated by the project are on file at Alpine Archaeological Consultants, Inc.

LOCATION AND ENVIRONMENTAL BACKGROUND

The four planned well pads are located in the Uintah Basin of the Colorado Plateau physiographic province. Legal descriptions are provided in Table 1. The planned wells are located approximately 14.5 km (9 miles) south of Vernal in the Stirrup locality of the Green River (Figure 1). The planned pads are on gently north and west facing river terraces. Elevations range from 4700 ft (1433 m) to 5020 ft (1530 m). Soils are sandy and contain abundant water-worn gravels, including cobbles of chert and quartzite. Vegetation associated with the Soccer State #32-5, the Football Federal #29-4, the Golf Federal #29-5 and the Baseball Federal #1 pads are dominated by prickly pear, shadscale, four-wing saltbush, and grasses. In addition, the Golf Federal #29-5 location contains some broadleaved Cottonwood. The Tennis Federal #28-5 location is characterized by low, gently rolling sand dunes vegetated with Indian ricegrass, prickly pear and rabbitbrush; this pad is located on a higher terrace than the other wells.



U.S.G.S. Vernal SE, Utah
7.5' quadrangle (1964, rev. 1978)

Figure 1. Location of planned well pads Baseball Federal #1, Golf Federal #29-5, Football Federal #29-4, Tennis Federal #28-2 and Soccer State #32-5. Sections 28, 29 and 32, Township 6 South, Range 21 East, S.L.M.

Table 1. Legal Locations of Project Well Pads

Well Name	Location (S.L.M.)			
Football Federal #29-4	SE $\frac{1}{4}$, SW $\frac{1}{4}$	Sec. 29	T 6S	R21E
Golf Federal #29-5	SE $\frac{1}{4}$, NE $\frac{1}{4}$	Sec. 29	T 6S	R21E
Baseball Federal #1	NE $\frac{1}{4}$, NW $\frac{1}{4}$	Sec. 28	T 6S	R21E
Tennis Federal #28-2	SE $\frac{1}{4}$, SW $\frac{1}{4}$	Sec. 28	T 6S	R21E
Soccer State #32-5	NW $\frac{1}{4}$, NW $\frac{1}{4}$	Sec. 32	T 6S	R21E

STATEMENT OF OBJECTIVES

The primary objective of the archaeological survey was to locate significant cultural resources in the area of planned construction to aid in the preservation of those cultural resources or to facilitate the formulation of appropriate mitigative strategies. The first step in achieving this objective was to locate all cultural resources in the immediate vicinity of each well pad. This was accomplished by conducting site file searches at the Utah Division of State History and at the Bureau of Land Management's Vernal District Office and by conducting an intensive pedestrian survey of the project area. For the purpose of this study, cultural resource sites were defined as areas containing evidence of patterned human activity, in excess of 50 years antiquity. Locations of artifacts evincing greater than 50 years of age not meeting the criteria for site definition were classified as isolated finds. Recommendations regarding the significance of the cultural resources located by this project are assessed using the criteria for determining eligibility for nomination to the National Register of Historic Places. The historic preservation laws mandating this cultural resource study specifically identify eligibility to the National Register of Historic Places as the key factor in determining preservation needs. The criteria for assessing site significance, as published in the U.S. Government Code of Federal Regulations (36 CFR 60) read as follows:

National Register criteria for evaluation. The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of State and local importance that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and

- (a) that are associated with events that have made a significant contribution to the broad patterns of our history; or
- (b) that are associated with the lives of persons significant in our past; or
- (c) that embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

- (d) that have yielded, or may be likely to yield, information important in prehistory or history.

Identification and evaluation of cultural resources in the project area permits formulation of management recommendations. Isolated finds do not meet the criteria for inclusion on the National Register and are not recommended for further archaeological treatment. For significant sites, management options include site avoidance and data recovery.

LITERATURE REVIEW

On November 21, 1989, a site file search was conducted at the BLM Vernal District Office. The records indicated that no cultural resources have been recorded within the project area.

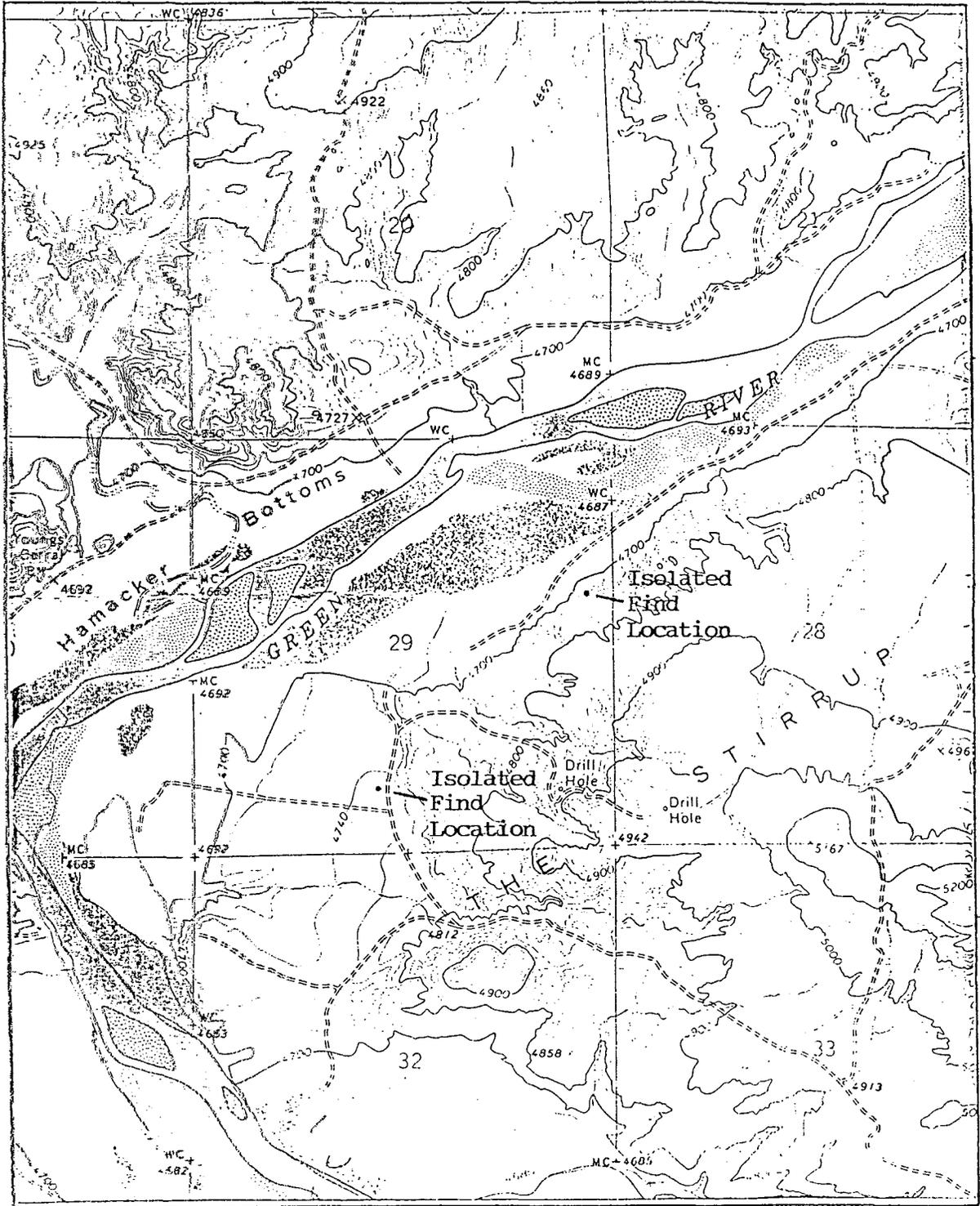
A site file search was also conducted at the Utah Division of State History on November 20, 1989. This search confirmed that no cultural resource sites had been previously recorded in the project area. State records indicate, however, that road corridors for planned access roads had been previously inspected for cultural resources within the 10-acre parcels surrounding the Football Federal #29-4 and the Soccer State #32-5 locations (Hauck 1985a; 1985b).

FIELD METHODS

The cultural resource inventory was conducted by two archaeologists. At each of the five planned well pads, a 10-acre square parcel was defined, oriented to the cardinal directions and centered on the well pad's center stake. The boundary of the parcel was walked, using a compass for orientation. Parallel sweeps, spaced at 15 m intervals, were conducted across the parcel, again using a compass for orientation. The ground surface was inspected for artifacts and cultural features. Portions of the access roads fell within the 10-acre parcel surveyed. The remaining stretches of road were surveyed to 15 m each side of the centerline.

RESULTS

The inspection of five 10-acre parcels and the inspection of approximately .4 km ($\frac{1}{4}$ mile) of associated access road resulted in the identification of two isolated finds. No cultural resource site locations were discovered. One isolated find was located in the 10-acre parcel delineated around Football Federal #29-4, within an area staked as an access road. The isolated find consists of one medium-grained black quartzite flake, bifacially retouched into a crude discoidal tool. This artifact retains approximately 15% water-worn cortex on its dorsal surface and measures approximately 5 cm length by 4.3 cm width by 2 cm thickness. The other isolated find was located within the 10-acre parcel around Baseball Federal #1. It consists of one white quartzite complete flake measuring 6.8 cm in length and retaining cortex on the platform only, and one white chalcedony broken flake measuring 2.7 cm in length with water-worn cortex covering 100% of the dorsal surface. This isolate is not within the area staked for construction. Figure 2 depicts the locations of the isolated finds.



U.S.G.S. Vernal SE, Utah
7.5' quadrangle (1964, rev. 1978)

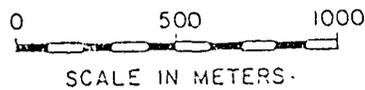


Figure 2. Locations of isolated finds. Section 29, Township 6 South, Range 21 East, S.L.M.

SUMMARY AND RECOMMENDATIONS

A site file search and intensive pedestrian inventory were conducted for five planned TXO Production Corp. well pads and associated access roads. The site file search revealed that no cultural resource sites had been previously recorded in the project area. The intensive inspection of the 53-acre project area yielded no cultural resource sites. Two prehistoric isolated finds were located near two of the planned well pads. Isolated finds are not eligible to the National Register of Historic Places and so merit no management consideration. Because no cultural resource sites were found during the project, no additional archaeological work is recommended for Football Federal #29-4, Golf Federal #29-5, Baseball Federal #1, Tennis Federal #28-2 or Soccer State #32-5 or their associated access roads prior to project development.

REFERENCES CITED

Hauck, F. R.

1985a Two Units in Stirrup Locality: Cultural Resource Inventory for Alta Energy's Cotton Club No. 1 and Stirrup No. 32-IJ Wells. Summary Report of Inspection for Cultural Resources form on file at the Utah Division of State History, Salt Lake City.

1985b Alternate Access Route: Cultural Resource Inventory for Alta Energy's Cotton Club Unit No. 1. Summary Report of Inspection for Cultural Resources form on file at the Utah Division of State History, Salt Lake City.

OPERATOR TXO Production Corp. (N1580) DATE 1-17-90

WELL NAME Golf Fed. #29-5

SEC SENE 29 T 6S R 2/E COUNTY Uintah

43-047-31886
API NUMBER

Federal
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

Nearest well ok under Cause No. 127-3
Need Water Permit
Archaeological Survey Nov. 89'

APPROVAL LETTER:

SPACING: R615-2-3

N/A
UNIT

R615-3-2

127-3 3-28-85
CAUSE NO. & DATE
(G. River Wasatch)

R615-3-3

STIPULATIONS:

1. Water Permit ~~not~~
2. The well shall be completed for production ~~under~~ from ^{either the} Green River or Wasatch formations ~~to~~ avoid ~~is~~ ^{conflict} ~~accordance~~ with the order in Cause No. 127-3.
3. If ~~commercial~~ production is established from the Uinta formation, the operator shall submit a Request for Agency Action to the Board of Oil, Gas and Mining in order to establish an appropriate order for spacing of wells within the area.

BEFORE THE BOARD OF OIL, GAS & MINING
DEPARTMENT OF NATURAL RESOURCES
IN AND FOR THE STATE OF UTAH

IN THE MATTER OF THE PETITION)
OF AMERICAN PETROFINA CO. OF) FINDINGS AND ORDER
TEXAS FOR AN ORDER EXTENDING)
THE 80-ACRE DRILLING AND)
SPACING UNITS IN CAUSE NO.) Docket No. 85-014
127-1 ~~271-1~~ TO ADDITIONAL LANDS IN) Cause No. 127-3
UINTAH COUNTY, UTAH)

Pursuant to the Petition of American Petrofina Company of Texas, this cause came on for hearing before the Board of Oil, Gas & Mining, Department of Natural Resources, State of Utah, on Thursday, March 28, 1985, at 10 o'clock a.m. in the Board Room of the Board of Oil, Gas & Mining, 355 West North Temple, 3 Triad Center, Suite 301, Salt Lake City, Utah. The following Board members were present:

Gregory P. Williams, Chairman
James W. Carter
Charles R. Henderson
Richard B. Larsen
John M. Garr
E. Steele McIntyre

Also in attendance representing the Division of Oil, Gas & Mining were Dr. Dianne Nielson, Director, Ronald J. Firth, Associate Director, Oil & Gas, and John R. Baza, Petroleum Engineer. Counsel to the Division was Barbara W. Roberts, Esq., Assistant Attorney General. Counsel to the Board was Mark C. Moench, Esq., Assistant Attorney General.

Appearing as counsel on behalf of Petitioner was Robert G. Pruitt, Jr., of Pruitt, Gushee & Fletcher, and Leonard L. Hedberg, Rocky Mountain Exploration Manager, testified as an expert witness. Also present was John L. Davis, District Landman.

Mr. Assad M. Raffoul, Petroleum Engineer of the Utah State Office of the Bureau of Land Management was present and participated in questioning the witness and addressing the issues before the Board.

NOW, THEREFORE, the Board having considered the testimony adduced and the exhibits reviewed in said hearing, and being fully advised in the premises, makes and enters the following:

FINDINGS AND CONCLUSIONS

1. Due and regular notice of the time, place and purpose of the hearing was given to all interested parties as required by law and the Rules and Regulations of the Board.

2. The Board has jurisdiction over the subject matter of the Petition and over all parties interested therein and has jurisdiction to make and promulgate the order hereinafter set forth.

3. In Cause Nos. 127-1 and 127-2, this Board has previously ordered that 80-acre stand-up drilling and spacing units be established for the production of oil from the Green River formation and the Green River-Wasatch Transition Zone at a stratigraphic depth of not greater than 7,727 feet underlying Sections 19 and 30, Township 6 South, Range 21 East, SLM

4. According to geologic evidence testified to by Mr. Hedberg, the upper Green River formation (above the Douglas Creek member) constitutes a separate reservoir and source of supply beneath Sections 28, 29 and 32, Township 6 South, Range 21 East, SLM, whereas the Douglas Creek member of the lower Green River formation (herein called the "lower Green River formation") and the Wasatch formation within said Sections 28, 29 and 32 constitute a single reservoir and source of supply as covered by the Orders in Cause Nos. 127-1 and 127-2.

5. Wells drilled to produce oil from the lower Green River and Wasatch formations will most efficiently drain 80 acres each, and wells drilled in the SE $\frac{1}{4}$ of each E $\frac{1}{2}$ of the quarter section and the NW $\frac{1}{4}$ of each W $\frac{1}{2}$ of the quarter section will conform to the existing 80-acre drilling and spacing well pattern for this interval. The existing wells of American Petrofina, Federal 28-1 (NW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 28), Federal 29-2 (NW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 29) and State 32-1 (NW $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 32), qualify in all respects as the permitted wells for their respective 80-acre drilling units.

Sufficient evidence now being available upon which to reach a decision, the Board issues the following:

ORDER

IT IS HEREBY ORDERED by this Board as follows:

1. The 80-acre stand-up drilling and spacing units for the production of oil from the lower Green River formation and the Wasatch formation be, and hereby are, established

to cover Sections 28, 29 and 32, Township 6 South, Range 21 East, SLM, each unit comprising the E $\frac{1}{2}$ or the W $\frac{1}{2}$ respectively of each quarter section.

2. No more than one well shall be drilled on any such 80-acre drilling and spacing unit in said Sections 28, 29 and 32 for the production of oil from the lower Green River and Wasatch formations.

3. The permitted well sites in each such 80-acre drilling and spacing unit shall be the SE $\frac{1}{4}$ of the E $\frac{1}{2}$ and the NW $\frac{1}{4}$ of the W $\frac{1}{2}$ of each governmental quarter section.

4. All wells in the spaced area shall be located no closer than 500 feet from the exterior boundaries of each such 80-acre unit provided, however, that exceptions to the foregoing "500 foot rule" may be had without notice or hearing:

(a) Upon filing with the Board, of a petition showing the necessity for the proposed exception location which is based on topographical and/or geological conditions; and

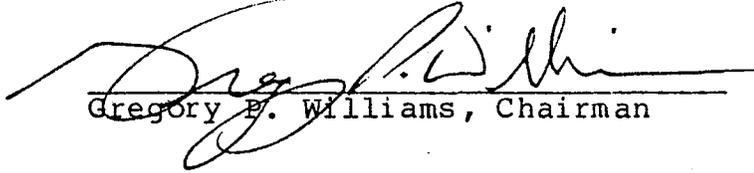
(b) (1) Where the ownership of all oil leases within a radius of 660 feet of the proposed exception location is common with the ownership of the oil leases under the proposed exception location; or

(2) All owners of the operating rights in oil leases within such 660 foot radius consent in writing to the proposed exception location.

5. The effective date of this Order shall be March 28, 1985, the date of hearing of this matter.

DATED this 26th day of April, 1985.

UTAH BOARD OF OIL, GAS & MINING



Gregory P. Williams, Chairman

Approved as to form:



Mark C. Moench
Assistant Attorney General



DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER RIGHTS

Norman H. Bangerter
Governor
Don C. Hansen
Executive Director
Robert L. Morgan
State Engineer

1636 West North Temple, Suite 220
Salt Lake City, Utah 84116-3166
801-538-7240

*EWTF
pls file on
status sheet*

January 19, 1990

TXO Production Corp.
Attn: Charles K. Curlee
1800 Lincoln Center Bldg.
Denver, CO 80264

Dear Applicant:

RE: TEMPORARY APPLICATION
NUMBER 45-5381 (T64334)

Enclosed is a copy of approved Temporary Application Number 45-5381 (T64334). This is your authority to construct your works and to divert the water for the uses described.

While this approved application does give you our permission to divert and use water, it does not grant easements through public or private lands in order to gain access to the source nor to convey the water to the place of use, nor does this approval eliminate the need for such other permits as may be required by this Division or any other agency in implementing your diversion.

This application will expire January 19, 1991, and it is expected that no diversion or use of the water will be done after that date unless another proposal has been made and approved.

Your contact with this office, should you need it, is with the Area Engineer, Robert Leake. The telephone number is (801)781-0770.

Sincerely,

Robert L. Morgan
Robert L. Morgan, P.E.
State Engineer

RLM:rc

Encl.: Copy of Approved Temporary Application



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangert
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

January 22, 1990

TXO Production Corporation
1800 Lincoln Center Building
Denver, Colorado 80264

Gentlemen:

Re: Golf Fed. #29-5 - SE NE Sec. 29, T. 6S, R. 21E - Uintah County, Utah
1915' FNL, 656' FEL

Approval to drill the referenced well is hereby granted in accordance with the Order of Cause No. 127-3 dated March 28, 1985, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.
2. The well shall be completed for production only from the lower Green River and Wasatch formations in accordance with the order in Cause No. 127-3.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-047-31886.

Sincerely,



R. J. Pirth
Associate Director, Oil & Gas

lcr
Enclosures
cc: Bureau of Land Management
D. R. Nielson
J. L. Thompson
WE14/5-6



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangarter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

January 22, 1990

TXO Production Corporation
1800 Lincoln Center Building
Denver, Colorado 80264

Gentlemen:

Re: Amended Approval - Golf Fed. #29-5 - SE NE Sec. 29, T. 6S, R. 21E
Uintah County, Utah - 1915' FNL, 656' FEL

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-2, Oil and Gas Conservation General Rules, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.
2. The well shall not be completed for production from either the Green River or Wasatch formations to avoid conflict with the order in Cause No. 127-3.
3. If production is established from the Uinta formation, the operator shall submit a Request for Agency Action to the Board of Oil, Gas and Mining in order to establish an appropriate order for spacing of wells within the area.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.

5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.
6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-047-31886.

Sincerely,



R. J. Erth
Associate Director, Oil & Gas

lcr
Enclosures
cc: Bureau of Land Management
D. R. Nielson
J. L. Thompson
WE14/1-2

FILING FOR WATER IN THE STATE OF UTAH RECEIVED

Rec. by _____
Fee Rec. _____
Receipt # _____
Microfilmed _____
Roll # _____

DEC 11 1989

APPLICATION TO APPROPRIATE WATER RIGHTS

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Title 73, Chapter 3 of the Utah Code Annotated (1953, as amended).

* WATER RIGHT NO. 45-5381 * APPLICATION NO. T64334

1. * PRIORITY OF RIGHT: December 7, 1989 * FILING DATE: December 7, 1989

2. OWNER INFORMATION

Name(s): TXO Production Corp. Attn: C. Curlee * Interest: _____ %
Address: 1800 Lincoln Center Bldg.
City: Denver State: CO Zip Code: 80264
Is the land owned by the applicant? Yes _____ No X
(If "No", please explain in EXPLANATORY section.)

3. QUANTITY OF WATER: 0.1 cfs and/or _____ ac-ft

4. SOURCE: Green River * DRAINAGE: _____
which is tributary to Colorado River
which is tributary to _____
POINT(S) OF DIVERSION: _____ COUNTY: Uintah
1500' east and 2000' south of northwest corner of Section 29-T6S-R21E or an alternate point of diversion at 1200' east and 1300' north of southwest corner of Section 32-T6S-R21E.

Description of Diverting Works: _____
* COMMON DESCRIPTION: _____

5. POINT(S) OF REDIVERSION

The water will be rediverted from Not Applicable at a point: _____

Description of Rediverting Works: _____

6. POINT(S) OF RETURN

The amount of water consumed will be 0.1 cfs or _____ ac-ft
The amount of water returned will be None cfs or _____ ac-ft
The water will be returned to the natural stream/source at a point(s): _____

7. STORAGE

Reservoir Name: Not Applicable Storage Period: from _____ to _____
Capacity: _____ ac-ft. Inundated Area: _____ acres
Height of dam: _____ feet
Legal description of inundated area by 40 acre tract(s): _____

* These items are to be completed by the Division of Water Rights

Appropriate

8. List any other water rights which will supplement this application none

9. NATURE AND PERIOD OF USE

Irrigation:	From _____ to _____
Stockwatering:	From _____ to _____
Domestic:	From _____ to _____
Municipal:	From _____ to _____
Mining:	From _____ to _____
Power:	From _____ to _____
Other:	From <u>12-15-89</u> to <u>12-15-90</u>

10. PURPOSE AND EXTENT OF USE

Irrigation: _____ acres. Sole supply of _____ acres.
 Stockwatering (number and kind): _____
 Domestic: _____ Families and/or _____ Persons
 Municipal (name): _____
 Mining: _____ Mining District in the _____ Mine
 Ores mined: _____
 Power: Plant name: _____ Type: _____ Capacity: _____
 Other (describe): for drilling oil & gas wells.

11. PLACE OF USE

Legal description of place of use by 40 acre tract(s): Proposed oil/gas wells in T6S-R21E:
NE/NW and SE/SW of Section 28
SE/SW and SE/NE of Section 29
NW/NW of Section 32
SW/NW of SW/SW of Section 27
Exact location of wells may change.

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of same size if necessary): Land is federal and state, managed by the Vernal District BLM and the State of Utah. TXO Production Corp. is the operator of oil & gas leases on the subject lands.

 The applicant(s) hereby acknowledges that he/she/they are a citizen(s) of the United States of America or intends to become such a citizen(s). The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

Charles K. Curlee
 Signature of Applicant(s)
 Charles K. Curlee
 Environmental Manager

STATE ENGINEER'S ENDORSEMENT

WATER RIGHT NUMBER: 45 - 5381

APPLICATION NO. T64334

1. December 7, 1989 Application received.
 2. December 7, 1989 Application designated for APPROVAL by RWL and KLJ.
 3. Comments:
-
-

Conditions:

This application is hereby APPROVED, dated January 19, 1990, subject to prior rights and this application will expire on January 19, 1991.


Robert L. Morgan, P.E.
State Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
 TXO Production Corp. *Division: C.K. Curlee*

3. ADDRESS OF OPERATOR
 1800 Lincoln Center Bldg. Denver, CO 80264

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 1915' FNL, 656' FEL (SE/NE) Section 29-T6S-R21E
 At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.
 U-46699

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 - - -

7. UNIT AGREEMENT NAME
 - - -

8. FARM OR LEASE NAME
 Golf Federal

9. WELL NO.
 29-5

10. FIELD AND POOL, OR WILDCAT
 Unnamed

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Section 29-T6S-R21E

12. COUNTY OR PARISH
 Uintah

13. STATE
 UT

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approximately 13.5 miles south of Vernal, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 656'

16. NO. OF ACRES IN LEASE
 approx. 780

17. NO. OF ACRES ASSIGNED TO THIS WELL
 160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. (Fina Fed. #29-2)
 approx. 2100'

19. PROPOSED DEPTH
 3850

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4694' G.R.

22. APPROX. DATE WORK WILL START*
 February 1, 1990

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	300'	200 sacks (approx.) to surface
7 7/8"	4 1/2"	10.5#	3850'	250 sacks

All casing will be new K-55.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Gary E. Wurdeman TITLE Dist. Drilling & Prod'n Mgr. DATE December 28, 1989
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY [Signature] TITLE ASSISTANT DISTRICT MANAGER MINERALS DATE 2/22/90
 CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

*See Instructions On Reverse Side



Div OGrM

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company TXO Production Corp. Well No. Gulf Federal 29-5

Location SE/NE Sec. 29 T6S R21E Lease No. U-46699

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to the hydrologist of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All useable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc. and individual components shall be operable as designed.

The Vernal District Office shall be notified, with sufficient lead time, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on every fourth joint of casing starting with the soe joint and up to the bottom of the cellar.

Useable water may be encountered from +296-1,166 ft., +1,296-1,396 ft., +1,711-1,746 ft., + 1,851-1,881 ft., + 2,664-2,564 ft., and +3,406-3,676 ft. in the Uinta Formation. If encountered, the resource will need to be isolated and/or protected via the cementing program for the production casing.

The District Office shall be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

4. Mud Program and Circulating Medium

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight.

A cement bond log (CBL) shall be utilized to determine the top of cement (TOC) for the intermediate and production casing.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Authorized Officer (AO).

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Pursuant to NTL-2B, with the approval of a District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

Pursuant to Onshore Oil and Gas Orders, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or work-over program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on

which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An additional one (1) year approval period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hour approvals are necessary, please contact one of the following individuals:

Gerald E. Kenczka (801) 781-1190
Petroleum Engineer

Ed Forsman (801) 789-7077
Petroleum Engineer

FAX Phone number is: 789-3634

Revised October 1, 1985

Date NOS Received 1-17-89

CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL

Company/Operator TXO Production Corp.

Well Name & Number Golf Federal 29-5

Lease Number U-46699

Location SE 1/4 NE 1/4 Sec. 29 T.6S. R.21E.

Surface Ownership BLM

B. THIRTEEN POINT SURFACE USE PROGRAM:

1. No construction or drilling activities shall be conducted between November 15 thru April 15 because of bald and golden eagle winter habitat areas.

No equipment will be allowed in the riparian area. This will preserve the present state of the riparian area as well as prevent any damage to the existing trend plot.

ENTITY ACTION FORM - FORM 6

OPERATOR TXO PRODUCTION CORP.

OPERATOR ACCT. NO. N 1580

ADDRESS 1660 Lincoln St., Suite 1800

Denver, Colorado 80264

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11091	43-047-31886	Golf Federal #29-5	SE NE	29	6S	21E	Utah	5-7-90	5-18-90
<p>WELL 1 COMMENTS: Chandler Drilling Corp. Rig #1 spudded TXO Production Corp.'s Golf Federal #29-5 located 1915' FNL, 658' FEL (SE/NE) of section 29-T6S-R21E in Uintah Co., Utah. @ 9:30 p.m., 5-7-90. 12 1/4" hole was drilled to 361'. 8-5/8", 24#, K-55, surface casing was subsequently set @ 358', cemented with 330 sxs, and successfully tested to 2000 psig. Verbal notification of the spud was made to BLM and State of Utah by TXO personnel. Running, cementing and testing of the surface casing was witnessed by a BLM representative on location.</p>											
<p>WELL 2 COMMENTS: <i>Federal-lease Field-Undesignated Unit-N/A</i> <i>Proposed Zone-ORPV (New entity 11091 added 5-25-90)-for</i></p>											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

RECEIVED
MAY 23 1990

Richard Coy
Signature
Area Drlg & Prod Eng. 5-18-90
Title Date
Phone No. (303) 861-4246

DIVISION OF OIL, GAS AND MINING

API NO. 43-047-31886

SPUDDING INFORMATION

NAME OF COMPANY: TXO PRODUCTION CORPORATION

WELL NAME: GULF FEDERAL 29-5

SECTION SENE 29 TOWNSHIP 6S RANGE 21E COUNTY UINTAH

DRILLING CONTRACTOR CHANDLER

RIG # 7

SPUDDED: DATE 5/7/90

TIME 9:30 p.m.

HOW ROTARY

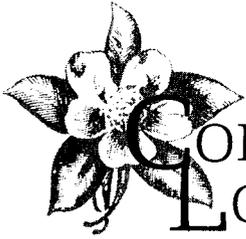
DRILLING WILL COMMENCE 12 1/4" hole

REPORTED BY Randy

TELEPHONE #

DATE 5/9/90

SIGNED TAS TAKEN BY: RJF



COLUMBINE
LOGGING, INC.

TXO Production Corporation

GEOLOGICAL REPORT

Golf Federal No. 29-5
1915' FNL & 665' FEL, SE SE
Section 29, Township 6 South,
Range 21 East
Uintah County, Utah

Geologist:
Charles S. Chapman
Lakewood, CO

TABLE OF CONTENTS

	<u>Page(s)</u>
Resume	1 - 2
Summary and Conclusions	3
Formation Tops	4
Drill Stem Tests	5
Daily Drilling Chronology	6
Bit Record	7
Mud Record	8
Drilling Functions	9
Penetration Rate/Time Chart	10
Lithology	11 - 12

RESUME

OPERATOR: TXO Production Corporation
WELL NAME & NUMBER: Golf Federal No. 29-5
LOCATION: 1915' FNL & 665' FEL, Section 29,
Township 6 South, Range 21 East
AREA: Horsebend Field, Stirrup Allotment
COUNTY: Uintah
STATE: Utah
ELEVATION: 4694' GL, 4706.6' KB
ENGINEER: Randy Walck, Wes Sutton
GEOLOGIST: Charles S. Chapman
SPUD DATE: May 7, 1990
COMPLETION DATE: May 13, 1990
HOLE SIZE: 7 7/8"
CASING: 8 5/8" surface casing set @ 360'
CEMENTING COMPANY: Dowell
CONTRACTOR: Chandler Drilling Co.
EQUIPMENT: Rig #7
TOOLPUSHER: Darrell Fladeland
DRILLERS: D.P. Dingman, L.L. Dingman,
K.K. Cox and H.C. Hall
DRAWWORKS: N45 Brewster
DERRICK: Lee C. Moore
PUMP: National C-350

RESUME cont'd.

DRILL COLLARS: 6 1/4" x 4 1/2" H90

DRILL PIPE: 4" FH

DRILLING MUD COMPANY: Drilling Fluids Assoc., Inc.

MUD TYPE: H2O surface to 280', LSND 2800' to 3720'

MUD ENGINEER: Nathan Parker

MUD LOGGING COMPANY: Columbine Logging, Inc.

TYPE UNIT: Hotwire and Chromatograph

DRILL STEM TESTS: Company: Halliburton
Tester: John Ballard &
Scott Brown
Formation: Uinta "B"
Interval: 3360' to 3445'

ELECTRIC LOG COMPANY: Halliburton

TYPE LOGS: DIL-GR-SP surface casing to 3713',
CDL/DSN 2500' to 3720'

ENGINEER: J. Chapman

TOTAL DEPTH: 3720' Driller and 3713' Logger

DRILLING TIME: 7 days

BOTTOM FORMATION: Green River

WELL STATUS: Plugged and Abandoned

SUMMARY AND CONCLUSIONS

The Golf Federal No. 29-5 was drilled to a total depth of 3720' to test the Uinta "B" zone of the Uinta formation for gas production. Several sands were encountered while drilling the Golf Federal from 3160' to 3520'. Drilling breaks and slight gas increases were also encountered while drilling these sands. However, the gas increase and the apparent visible porosity associated with these sands observed on the mudlog were not enhanced by running electric logs. Electric logs showed the Uinta "B" zone to primarily tight with no crossover occurring on the density neutron log.

It was determined that running a drill stem test from 3360' to 3445' might provide a better conclusion as to the productive ability of the Uinta "B" zone in the Golf Federal No. 29-5 well. The drill stem test corroborated both the mudlog and electric log in that the interval tested proved tight, with no significant pressures or gas observed while testing. After running the drill stem test, it was determined that the Golf Federal No. 29-5 was not productive and it was plugged and abandoned.

As in the Soccer State No. 32-5 and the Football Federal 29-4, a thick oil sand was encountered in the Golf Federal, in the lower part of the Uinta "B" from 3530' to 3620' and from 3640' to 3660' on the mudlog. The oil associated with this sand interval was a heavy crude, probably asphaltic in nature and most likely uneconomical to produce.

FORMATION TOPS

Elevation from K.B. - 4706.6'

Note: Electric log K.B. 2.4' too high

<u>Formation</u>	<u>Sample Top Depth from K.B.</u>	<u>Electric Log Depth from K.B.</u>	<u>Sub Sea (+ or -)</u>
Uinta "B"	3298'	3303'	+1403.6'
Green River	3669'	3661'	+1045.6'
TD	3720'	3713'	+ 993.6'

DRILL STEM TESTS

Well Name: Golf Federal No. 29-5
Date: May 14, 1990
Interval: 3360' to 3445'
Formation: Uinta "B"

Bottom Choke: .25"
Top Choke: .75"

FIELD INFORMATION

	<u>Time</u>	<u>Blow Description</u>	<u>Pressures</u>
IHHP			1674
IFP	30 min	Slight blow when tool opened in 2 min good blow at bottom of bucket, IPSI, in 6 min 3 psi at end of 30 min open 2.5 psi	30-79
ISIP	60 min		1033
FFP	60 min	Good blow to bottom of bucket @ 7 psi when tool opened, gas to surface in 6 min @ 11 psi, 4-6' lazy flare, @ 10 min, 9 psi @ 60 min, 4 psi	70-99
FSIP	120 min		1082
FHHP			1654

BHT 94 deg. F @ 3708'

Recover in chamber: There was no fluid or gas recovery in the sample chamber.

Recover 70' gas cut mud

Top Rw = 2.3 @ 65 deg. F, Cl 1800 ppm.
Mud Rw = 2.0 @ 79 deg. F, Cl 1697 ppm.

SIP Buildup indicated: Tight

Test Company: Halliburton Tester: John Ballard & Scott Brown
Test was mechanically successful

DAILY DRILLING CHRONOLOGY

<u>1990 Date</u>	<u>Accum. Footage</u>	<u>Footage 24 Hours</u>	<u>Rig Activity</u>
5-07	0'	0'	Move rig, rig up, spud 12 1/4" surface hole, mixed mud, drl rat-hole, mousehole
5-08	143'	143'	Drl surf hole, run 8 5/8" casing @ 352'
5-09	361'	218'	Dowell pumped cmt, WOC, nipple up, test BOP
5-10	1012'	651'	Drlg, survey
5-11	1985'	973'	Trip for NB #3 @ 1216', TIH, ream 40' to bottom, survey
5-12	3041'	1056'	Drl, water flow @ 2376', 2 bbls/min.
5-13	3600'	544'	Drl, water flow 1/4 bbl/min.
5-14	3720'	120'	Electric logging & drill stem test

BIT RECORD

<u>No.</u>	<u>Make</u>	<u>Type</u>	<u>Size</u>	<u>In</u>	<u>Out</u>	<u>Footage</u>	<u>Hours</u>
RR1	HTC	J-1	12 1/4"	12'	361'	349'	19 1/2
2	SEC	S-3	7 7/8"	361'	1216'	769'	14 1/2
3	Reed	HP53A	7 7/8"	1216'	3720'	2504'	71

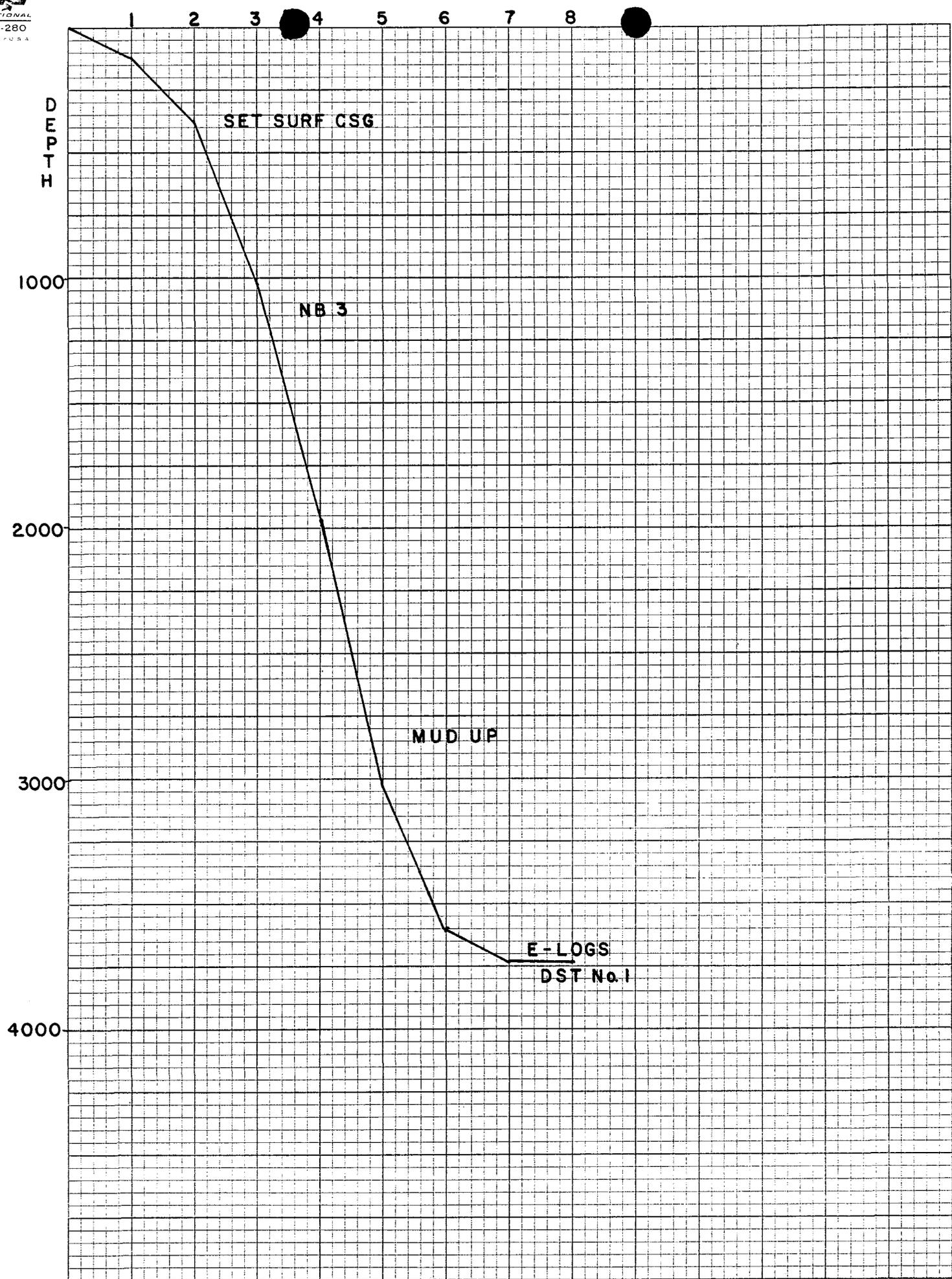
MUD RECORD

<u>Date</u>	<u>5/07</u>	<u>5/08</u>	<u>5/09</u>	<u>5/10</u>	<u>5/11</u>	<u>5/12</u>	<u>5/13</u>	<u>5/13</u>
Depth	Spud	201'	361'	1160'	2200'	3030'	3505'	3705'
Wt.	8.7	8.7	8.4	8.4	8.4	8.5	8.8	9.5+
F.Vis	33	32	27	27	27	33	34	39
P.Vis						5	6	12
Yld						6	7	9
Gel Strnt						2/5	3/8	5/10
pH	9.5	10.0	10.0	10.5	10.5	10.5	9.0	9.5
Filtr	nc	nc	nc	nc	nc	8.6	8.0	8.2
CK						1/32	1/32	1/32
ALKA						.5	.2	.26
Chlo	700	700	700	700	700	1600	1700	1500
Calcium	60	80	90	80	80	20	60	40
Gyp Sand%							1/4	1/2
Sld%/Wtr	3.0	3.0	100	100	100	1.5/98.5	2.5/97.25	7.5/92
Cum. Cost	\$125	\$400	\$975	\$1395	\$1805	\$2835	\$3395	\$4280

DRILLING FUNCTIONS

<u>Depth</u>	<u>W.O.B.</u>	<u>R.P.M.</u>	<u>P.P.</u>	<u>Deviation</u>
12' - 299'	all	85/100	325	1/2 deg @ 164'
299' - 361'	all	80	375	3/4 deg @ 320'
361' - 634'	30000	90	550	
634' - 1012'	30000	90	700	3/4 deg @ 863'
1012' - 1985'	35000	70	700	1/2 deg @ 1216'
1985' - 3041'	35000	70	800	
3041' - 3600'	35000	70	800	
3600' - 3720'	35000	70	800	3/4 deg @ 3720'

DAYS



LITHOLOGY

- 2800' - 2840' Sh lt grn-grn, brn, yel brn, n-sl calc, dul erthy-wxy, sb fis-sb blk, sft frm w/intbd SS, lt gy-gy, vf-fg, sb ang-sb rd, w srt, calc-cly cmt, fri, ang, shly w/grn mnrl grs & occ Ls, buf, lt gy, micxln, arg, blk, hd
- 2840' - 2880' SS wh, frstd, lt grn, f-vcg, cong, ang-sb rd, p srt, calc-cly cmt, fri-uncons w/qtz pbl S&P ip
- 2880' - 2950' SS wh, lt gy, f-mg, sb rd-sb ang, m srt, calc-cly cmt, fri-uncons & intbd Sh grn, dk gy, yel brn, dk grn, purp, motl, n-sl calc, slty, dul-wxy, sft frm, w/occ Ls lt brn, buf, micxln, ang, chky, sb blk, frn & Bent lt gy, grn, mica
- 2950' - 2970' SS wh, lt gy, frstd, f-vcg, cong, ang-sb rd, p-w srt, calc-cly cmt, fri-uncons, w/cht & qtz pbl
- 2970' - 3020' SS wh, lt gy-gy, s & p, vf-fg, mnrl mg, sb ang-sb rd, calc-cly cmt, m srt, fri-cons, w/blk & orng mnrls, intbd Ls lt brn, tn, buf, micxln, arg, chky, sb blk, frm & Sh gy, grn, n-sl calc, dul-wxy, sb fis-sb blk, sft frm
- 3020' - 3150' Sh gy, grn, brn, red brn, slty, n-calc, dul erthy-wxy, sb fis-sb blk, sft frm w/intbd SS wh, lt gy, vf-mg, sb rd-sb ang, calc-cly cmt, m srt, fri-lsely cons, n vis por, w/mnrl orng mnrls
- 3150' - 3200' SS wh, vf-fg, sb rd-sb ang, m-w srt, calc-cly cmt, fri, n-p vis por, intbd Sh gen aa
- 3200' - 3300' SS wh, lt gy, lt grn, vf-mg, sb ang-sb rd, calc-cly cmt, m-w srt, fri, n-fr vis por & intbd Sh gen aa
- 3300' - 3530' SS wh, lt gy, lt grn, vf-fg, mnrl mg, sb ang-sb rd, calc-cly cmt, m-w srt, fri-lsely cons, n-p vis por, s & p ip, intbd Sh red brn, brn, grn, gy grn, n-calc, dul erthy-wxy, sb fis-sb blk, sft frm, bent ip
- 3530' - 3630' SS wh, occ lt brn, vf-mg, sb ang-w rdd, calc-cly cmt, m-w srt, fri-lsely cons, w/tr-mnrl oil stn, tr free heavy crude (asphaltic) in intrstcs, w/tr dul gld flor, fst strmg mlky cut, p-fr vis por & mnrl intbd Sh gy grn, grn, red brn, brn, n-calc, dul erthy-wxy, sb fis-sb blk, frm

LITHOLOGY cont'd.

- 3630' - 3640' Sh gy, grn, dk grn, dk brn, mnr red brn, n-calc, dul erthy-wxy, sb fis-sb blk, frm
- 3640' - 3670' SS wh, lt gy, vf-fg, sb rd-w rdd, calc-cly cmt, m-w srt, fri-lsely cons, n-p vis por, w/mnr lt brn oil stn, hvy crude (asphaltic) in intrstcs, tr-5% dul gld flor, fst strmq mlky cut, w/mnr intbd Sh gy, gy grn, dk grn, brn gen aa
- 3670' - 3680' Ls lt brn, tn, buf, micxln, arg, chky, blk, frm-hd, w/mnr Sh gy grn, grn, n-calc, v sil ip, slty, sb fis-sb blk, frm-hd, w/cht, wh, lt gy, pyr, w/blk incl
- 3680' - 3720' Sh gy, gy grn, n-calc, v sil ip, slty, sb fis-sb blk, frm-hd w/cht, wh lt gy, pyr ip, w/blk incl & intbd SS, gy grn, vf-cg, v sil-calc cmt, p srt, sb ang, cons & mnr intbd Ls lt brn, tn, buf, micxln, ang, chky, blk, hd

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-11-15
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use APPLICATION FOR PERMIT - for such proposals.)

MAY 24 1990

1. LEASE DESIGNATION AND SERIAL NO. U-46699

2. IF INDIAN, ALLOTTEE OR TRIBE NAME _____

3. UNIT AGREEMENT NAME _____

4. FARM OR LEASE NAME Golf Federal

5. WELL NO. #29-5

6. FIELD AND POOL, OR WILDCAT Undesignated

7. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29-T6S-R21E

8. COUNTY OR PARISH Uintah 9. STATE Utah

10. NAME OF OPERATOR TXO PRODUCTION CORP.

11. ADDRESS OF OPERATOR 1660 Lincoln St., Suite 1800, Denver, CO 80264

12. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface 1915' FNL, 656' FEL (SE/NE)

13. PERMIT NO. 43-047-31886

14. ELEVATIONS (Show whether OF, RT, CR, etc.)
4694' G.L., 4706' K.B.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Spudding</u>	

(NOTE: Report results of multiple completion on Well Completion or Recompaction Report and Log form.)

17. DESCRIBE PROMISED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Chandler Drilling Corp. Rig #1 spudded TXO Production Corp.'s Golf Federal #29-5 @ 9:30 p.m., 5-7-90. 12 1/4" hole was drilled to 361' where in 8-5/8", 24#, K-55, surface casing was set @ 358', cemented with 330 sxs and successfully tested to 2000 psig. Verbal notification of the spud was made to the BLM and State of Utah by TXO personnel. Running, cementing and testing of the surface casing was witnessed by a BLM representative on location.

OIL AND GAS	
DRN	RJF
JRB	GLH
DTI	SLS

2-JLT	
1-TAS	
3-	MICROFILM ✓
4-	FILE

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Area Drlg & Prod. Engr. DATE 5-18-90

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NO.

U-46699

6. INDIAN, ALLOTTEE OR TRIBE NAME

7. AGREEMENT NAME

8. FARM OR LEASE NAME

Golf Federal

9. WELL NO.

29-5

10. FIELD AND POOL, OR WILDCAT

Undesignated

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 29-T6S-R21E

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other

2. NAME OF OPERATOR
TXO PRODUCTION CORP.

3. ADDRESS OF OPERATOR
1660 Lincoln St. Suite 1800, Denver, CO 80264

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1915' FNL, 656' FEL (SE/NE)

At top prod. interval reported below Same as above

At total depth Same as above

14. PERMIT NO. 43-047-31886
DATE ISSUED 1-22-90

12. COUNTY OR PARISH Uintah
13. STATE Utah

15. DATE SPUNDED 5-7-90
16. DATE T.D. REACHED 5-13-90
17. DATE COMPL. (Ready to prod.) Plugging Complete 5-15-90
18. ELEVATIONS (DF, REB, BT, GR, ETC.)* 4694' GR, 4706' K.B.
19. ELEV. CASINGHEAD - - -

20. TOTAL DEPTH, MD & TVD 3720'
21. PLUG, BACK T.D., MD & TVD - - -
22. IF MULTIPLE COMPL., HOW MANY* - - -
23. INTERVALS DRILLED BY - - -
ROTARY TOOLS X
CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Well drilled, determined to be noncommercial and plugged.
25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN / Compensated Density -- Neutron w/GR and caliper. Dual Induction w/ GR & SP
27. WAS WELL CORED
NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24.0	358'	12-1/4"	330 sxs 75-25 poz	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)
Well is plugged & abandoned w/plugs set as follows:
1700' - 3430' - 50 sxs Class "G"
1940' - 150 sxs Class "G"
406' - 306' - 40 sxs Class "G"
50' to surface 15 sxs Class "G"
Final plug 12:30 p.m. 5-15-90.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
Plugging witnessed by Mr. Ray Arnold with the BLM.	

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Copies of logs and DST results should be in your possession.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Ray Arnold TITLE Area Drlg & Prod. Engr. DATE 5-18-90

(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Stacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION		TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Uintah	Surface	3298'	3298'	Sandstones & Shales			
Uintah "B"	3298'	+3670'	+3670'	Sandstones & Shales			
Green River	+3670'	-	-	Sandstones & Shales			
DST #1	3360'	3445'	3445'	Uintah "B" IFP/30" 47-66 psig w/ strong blow ISIP/60" = 1042 psig FFP/60" = 75-112 psig w/ GTS 6" GA 21 MCFD FSIP/120" = 1079 psig Recovered 70' CCM. Test mechanically successful.			

37. SUMMARY OF POKOU'S ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

OIL AND GAS	
DRN	DT
JRB	GLH
DTS	SLS

1-TAS	
2. MICROFILM	✓
3. FILE	✓